

A rapid review of strategies to support learning and wellbeing among 16-19 year old learners who have experienced significant disruption in their education as a result of the COVID-19 pandemic. June 2022 update.

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Abstract:

The COVID-19 pandemic has caused a significant disruption to all levels of education, especially pupils from disadvantaged and vulnerable groups. Students aged 16-19 years are at a crucial time in their lives as they transition into further study or employment. The pandemic has brought together a unique set of conditions, not only involving disruption to education, but also to environmental, economic, social and emotional areas of young people's and their families' lives.

This rapid review investigated strategies to support learning and wellbeing among 16-19 years old learners engaged in full time education within a college or school setting who have experienced significant gaps in their education as a result of the COVID-19 pandemic. This review is an update from a previous review conducted in August 2021.

Reviews were published 2016-2022, with only one addressing post COVID evidence. 14 systematic reviews, four rapid reviews, one protocol and five UK organisational reports were identified from the initial searches in August 2021. Two systematic reviews one rapid evidence assessment, and two organisational reports were identified through an update in June 2022. There was no direct systematic review evidence that evaluated strategies to support learning for 16–19-year-old learners following the COVID-19 pandemic.

Evidence for strategies to support learning and wellbeing for 16-19 years old learners who have experienced significant disruption in their education is from studies conducted before the COVID-19 pandemic. Research is required to evaluate whether interventions that were successful in relatively “normal” circumstances will be as successful during / post-pandemic. Although supported by a limited volume of evidence, targeting support activity at learners from the most deprived socio-economic backgrounds has a significant positive impact on their progress.

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Wales COVID-19 Evidence Centre (WCEC) Rapid Review

A rapid review of strategies to support learning and wellbeing among 16-19 year old learners who have experienced significant disruption in their education as a result of the COVID-19 pandemic.

Report number – RR00044 (July 2022)

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The report can be downloaded here: <https://healthandcareresearchwales.org/wales-covid-19-evidence-centre-report-library>

Note: This report is an update from a previous report completed in September 2021, which can be downloaded here:

http://www.primecentre.wales/resources/RR/Clean/RR00016_Wales_COVID-19_Evidence_Centre_Rapid_review_Post-16_education_September_2021.pdf

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TOPLINE SUMMARY

Background / Aim of Rapid Review

The COVID-19 pandemic has caused a significant disruption to all levels of education, especially pupils from disadvantaged and vulnerable groups. Students aged 16-19 years are at a crucial time in their lives as they transition into further study or employment. The pandemic has brought together a unique set of conditions, not only involving disruption to education, but also to environmental, economic, social and emotional areas of young people's and their families' lives. This rapid review investigated strategies to support learning and wellbeing among 16-19 years old learners engaged in full time education within a college or school setting who have experienced significant gaps in their education as a result of the COVID-19 pandemic.

What is a Rapid Review?

Our rapid reviews use a variation of the systematic review approach, abbreviating or omitting some components to generate the evidence to inform stakeholders promptly whilst maintaining attention to bias. They follow the methodological recommendations and minimum standards for conducting and reporting rapid reviews, including a structured protocol, systematic search, screening, data extraction, critical appraisal, and evidence synthesis to answer a specific question and identify key research gaps.

This review is an update from a previous review conducted in [August 2021](#).

Literature searches were conducted on 15/8/21, 26/9/21 and 22/06/22. Included systematic reviews were assessed for quality with the AMSTAR-2 tool and included rapid reviews were assessed with the RaPeer tool.

Key Findings

Extent of the evidence base

- 14 systematic reviews (nine including meta-analysis), four rapid reviews, one protocol and five UK organisational reports identified from the initial searches in August 2021
- Two systematic reviews (two including meta-analysis), one rapid evidence assessment, and two organisational reports identified through an update in June 2022

Recency of the evidence base

- Reviews were published 2016-2022, with only one addressing post COVID evidence

Evidence of effectiveness from initial search in August 2021

- There was **no direct systematic review evidence** that evaluated strategies to support learning for **16-19 year old learners following the COVID-19 pandemic**.

- *Pre-COVID evidence* for several methods demonstrated a positive impact for 3-18 year old learners to enable them to progress with their learning. These included: **additional tutor support** (one to one, small group tuition, mentoring, peer support); **additional hours of tuition** (extension of the teaching day, or school holiday interventions); **metacognition and self-regulation**; and **additional maths and English tuition**.
- **Scholarships, financial aid** and **college information** have been found to help high-potential but low-income learners progress to higher education in the USA.
- The evidence showed **no benefit in withdrawing students from core lessons** for additional English tuition and there was no evidence that evaluated whole group additional tutor support and online additional tutor support.
- There was **no direct systematic review evidence** found for evaluating 16-19 years old **learners' wellbeing** related to the COVID-19 pandemic.
- *Pre-COVID evidence* showed that **screening and effective referral pathways** to clinical treatment are beneficial in improving student wellbeing for older teenagers and sixth form college students; and **counselling, physical activity and interventions aiming to improve sleep** are beneficial in improving student wellbeing across all the key-stages. Additionally, **mindfulness interventions** are successful in improving wellbeing for a wide range of learners especially in **post-secondary education**.
- Mixed evidence was found for therapy-based prevention programmes and social and emotional learning and no evidence found for evaluating support from family and friends.

Evidence of effectiveness from the update in June 2022 (previous report [August 2021](#))

- Both pre-COVID research and a rapid evidence assessment related to the COVID-19 pandemic have found that high dosage tutoring, and teacher-led one-on-one or small group tutoring can have a positive impact on learning recovery.
- Both pre-COVID and evidence related to the COVID-19 pandemic showed that repeating a school year has a negative impact on learning progress.

Policy Implications

- Evidence for strategies to support learning and wellbeing for 16-19 years old learners who have experienced significant disruption in their education is from **studies conducted before the COVID-19 pandemic**.
- Research is required to evaluate whether interventions that were successful in relatively “normal” circumstances will be as successful during / post-pandemic.
- Although supported by a limited volume of evidence, **targeting support activity** at learners from the **most deprived socio-economic backgrounds** has a significant positive impact on their progress.

Strength of Evidence

Most included studies were appraised as ‘**critically low-quality**’ (review) evidence

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Abbreviations:

Acronym	Full Description
DfE	Department for Education
EEF	Education Endowment Foundation
FE	Further education
HE	Higher education
LMICs	Low- and middle-income countries
SFCA	Sixth Form Colleges Association

BACKGROUND

This Rapid Review is being conducted as part of the Wales COVID-19 Evidence Centre Work Programme. The above question was suggested by the post-16 and transitions team working as part of the Welsh Government's [Renew and Reform programme](#). The work will help to shape the COVID-19 related recovery programme's work in providing **medium to long term coordinated support** for learners' wellbeing and progression across post-16 education and training in Wales. The findings will also be used to inform a baseline against which the impact of relevant interventions introduced as part of the programme can be monitored.

The COVID-19 pandemic caused a significant disruption to all levels of education. Several systematic reviews have provided evidence of learning loss across a range of subjects (Patrinos and Donnelly 2021), which is higher for pupils from disadvantaged and vulnerable groups (Crenna-Jennings et al. 2021; Darmody et al. 2021). Although the education of learners of all ages has been affected, post-16 learners are at a crucial time in their lives as they transition into further study or employment (Holt-White and Culliane 2021). It is important to support learners to overcome any negative impacts associated with the COVID-19 pandemic in an efficient and impactful way. Both **national and international initiatives will therefore be needed** to support schools in helping students catch up on missed learning, especially those post-16 learners from vulnerable backgrounds. A number of catch-up strategies for disadvantaged students have been suggested and include summer schools, extended school days, tutoring programmes and other practices (Crenna-Jennings et al. 2021). As well as focusing on initiatives for catching up and progressing with learning, it is also important to consider **young people's mental health** in the context of COVID-19 (Six Form Colleges Association 2021).

1.1 Purpose of this review

This Rapid Review investigated strategies to support learning and wellbeing among 16-19 years old learners engaged in full time education within a college or school setting who have experienced significant gaps in their education as a result of the COVID-19 pandemic. Prior to preparing this review (June 2021), a Rapid Evidence Summary was initiated across secondary education settings. Following searches of repositories specific to COVID-19 literature, the Education Resources Information Center database (ERIC) and education focused organisational websites (for example Nuffield Foundation, Education Policy Institute, Education Endowment Foundation), a number of reviews were identified. It was established that the evidence base on the impacts of COVID-19 in learning and attainment in disadvantaged children and young people has been thoroughly investigated (Chaabane et al. 2021, Drane et al. 2020, Patrinos and Donnelly 2021, Viner et al. 2021) and a further living systematic review and meta-analysis is currently underway (Betthaeuser et al. 2020).

A recent rapid evidence review by Moss et al. (2021) for DfE examined the evidence for the harms to pupils in the lower secondary and primary sectors from COVID and considered strategies for mitigating these harms. However, several reviews reported a **paucity of COVID-19 pandemic specific evidence regarding strategies to mitigate these impacts** for post-16 learners (Spours et al. 2021, Crenna-Jennings et al. 2021). It was therefore decided to

extend the search to literature that explored learning and wellbeing among 16-19 years old learners engaged in full time education within a college or school setting (referred to throughout the report as post-16 learners) who have experienced significant gaps in their education for any reason, whether through disadvantage or from regions struck by past disease, conflict, natural disasters etc. as well as any COVID-19 pandemic-specific studies. For the purposes of this report, systematic reviews where the primary studies were conducted before the start of the COVID-19 in December 2019 were referred to as pre-COVID-19. Any evidence published in response to the pandemic was referred to as post-COVID.

The specific **questions** posed by the stakeholders were:

- Q1: What methods of support for 16-19 years old learners are successful in enabling individuals to progress with their learning?
- Q2: What methods of support are beneficial in improving 16-19 year old learners' wellbeing?

RESULTS

2.1 Overview of the evidence base

From initial search in [August 2021](#): 1,782 records identified across our searches, 14 systematic reviews (9 including a meta-analysis), three rapid reviews and one protocol for a systematic review met our eligibility criteria. Five broader organisational reports that informed the topic were also included. All the systematic reviews incorporated **international literature** with the exception of three systematic reviews, where the included reviews were either only from the **USA** (Renbarger and Long 2019, Schmidt and Park 2021) or where the majority were from the **USA** (Lindsay et al. 2019). The five broader organisational reports included in this rapid review were all from the **UK**.

From update search in June 2022: the updated searches identified 1,024 new records, from which two systematic reviews with a meta-analysis and one rapid evidence assessment were included. In addition, two organisational reports were added to provide more details on strategies supporting 16-19 years old learners. Both systematic reviews and the rapid evidence assessment included international literature, although the rapid review had a specific focus on low- and middle- income countries (LMICs). Out of the two organisational reports, one focused on education in the USA, while the other contained international evidence, mainly from LMICs.

2.1.1 Progressing with learning

The initial searches ([August 2021](#)) identified the following:

- **Four systematic reviews** (Lindsay et al. 2019; Renbarger and Long 2019; Schmidt and Park 2021; Maughan et al. 2016) **and one systematic review with meta-analysis** (Valentine et al. 2009) that explored progressing with learning in **post-16 settings pre COVID-19**.
- **One rapid review** (Spours et al. 2021) **set out to explore** progressing with learning in post-16 settings **as a result of the COVID-19 pandemic**.

- A further **seven systematic reviews with meta-analysis** explored progressing with learning for **3-18 year olds** in secondary schools **pre COVID-19** for one to one tuition (EEF 2021a); small group tuition (EEF 2021b); peer tutoring (EEF 2021c); mentoring (EEF 2021d); summer school (EEF 2021e); extended school time (EEF 2021f) and metacognition and self-regulation (EEF 2021g).
- Additionally, **four broader organisational reports** explored progressing with learning in post-16 settings as a result of the **COVID-19 pandemic** (Association of Colleges 2021a; Crenna-Jennings et al. 2021; Holt-White and Cullinane 2021; The Sutton Trust 2021).
- A systematic review registered on PROSPERO was underway at the time when the first literature search was conducted for this rapid review in August 2021 (Bangpan et al. 2020). The protocol set out to ask the questions “what evidence is there, on educational policies and interventions relating to COVID-19 and other public health emergencies, aiming to improve quality and inclusiveness in education? and “What are the effects of such educational policies and interventions? (Bangpan et al. 2020).

The update searches (June 2022) identified the following:

- **One brief** developed by the National Comprehensive Center for the US Department of Education **explored learning recovery** for 5-18 year olds within the USA based on the pre-COVID evidence base (Gershenson and Lomax 2021).
- **One international policy and grey literature review** (mainly from LMICs) commissioned by the Education Development Trust explored **strategies aiming to reduce learning loss** due to the COVID-19 pandemic in children and young people aged 5 to 18 years (Ndaruhutse et al 2021).
- **One rapid evidence assessment** explored learning loss and learning gains and focused on programmes and policies implemented in response to a crisis (directly related to COVID-19, natural disasters, contexts of war, violence or other fragility) across the globe (including LMICs) for pupils aged 5 to 18 years (Page et al 2021a).
- **One systematic review and meta-analysis** explored progression with learning after **repeating a year for 3-18 year olds, pre COVID-19** (EEF 2021h).
- **One systematic review and meta-analysis** focused on **tutoring interventions**, including literacy or math tutoring, conducted by teachers, paraprofessional, non-professionals (volunteers) or parents for 3 to 18 year olds, pre-COVID (Nickow et al 2020).
- This systematic review of the protocol (Bangpan et al. 2020) cited above was published in 2022 (Shi et al. 2022). However, as it mainly focuses on interventions utilised during school closures (home-schooling and distance learning) rather than strategies to help learning recovery, it was not included in the main synthesis of this rapid review. For completeness, findings from this review are still presented in the [summary tables](#).

Outcomes

All the Educational Endowment Foundation systematic reviews that were part of the teaching and learning toolkit reported on additional months of progress in learning. The other systematic reviews reported on individual learners' outcomes and included educational attainment, short term grades and persistence, academic performance and completion. Some of the systematic reviews from the USA also focused on learners progressing to the next stage of learning and included accessing college, non-cognitive support, college enrolment, career, transition skills or individual learning achievement such as student experience, student success, non-cognitive support.

Recommendations from the organisational reports

From the initial searches ([August 2021](#)):

A number of different organisational groups have made recommendations that focus on enabling 16-19 year old learners to progress with their learning and include the [Education Policy Institute](#) (Crenna-Jennings et al. 2021), The Sutton Trust ([Holt-White and Cullinane 2021](#), [The Sutton Trust 2021](#)), and the [Association of Colleges](#) (2021a). These range from broad appeals for additional funding (often made in the context of policy and funding arrangements that are specific to England) to more targeted support for disadvantaged groups as follows ([Table 1](#)).

From the update searches (June 2022):

[Evidence from the US](#) (Gershenson and Lomax 2021) indicates that high-dosage tutoring, extended-day programs, and summer learning programs are effective options for learning recovery from nursery to secondary school. A common theme is in the creation of additional learning opportunities for pupils outside of the normal school day or school year. A key feature for success is the repeated, personal interactions with any type of educator (teachers, tutors, mentors, or counsellors) ([Table 1](#)).

[International evidence](#) (Ndaruhutse et al. 2021), predominantly from LMICs, implies that extended instructional time (longer school days, shorter holidays), catch-up programmes, remedial education (additional instruction), accelerated education programmes, condensed curriculum, low tech-solutions, and tutoring linked to classroom content can support learning recovery following disruptions. However, evidence suggests that **retention** (retaining students to repeat a year), **repetition** (repeating content that has been part of the curriculum, but students failed to learn it), and **social promotion** (students continuing with their age group even though their learning outcomes differ) do **not help regain lost learning** ([Table 1](#)).

2.1.2 Student wellbeing

The initial searches ([August 2021](#)) identified the following:

- **Two systematic reviews** (Lindsay et al. 2016; Lindsay et al. 2019), **one systematic review with meta-analysis** (Halladay et al. 2019) and **one rapid review** (White 2017a, b) explored methods of support that are beneficial for student wellbeing in **post-16 settings pre COVID-19**.
- **Two rapid reviews** (Sixth Form Colleges Association 2021, Spours et al. 2021) **set out to explore** methods of support that are beneficial for student wellbeing **post-16 settings as a result of the COVID-19 pandemic**.

- Additionally, **two broader organisational reports** explored methods of support that are beneficial for student wellbeing in **post-16 settings as a result of the pandemic** (Association of Colleges 2021b, Holt-White and Cullinane 2021).

The update searches (June 2022) identified the following:

- **One international policy and grey literature review** (mainly from LMICs) commissioned by the Education Development Trust explored **wellbeing interventions** in children and young people from the age of 5 to 18 implemented as a result of COVID-19 school closures (Ndaruhutse et al 2021).
- **One rapid evidence assessment** explored **wellbeing** and focused on programmes and policies implemented in response to a crisis (directly related to COVID-19, natural disasters, contexts of war, violence or other fragility) across the globe (including LMICs) for pupils aged 5 to 18 years (Page et al 2021a).

Outcomes

The reported outcomes included self-determination, empowerment, self-efficacy, self-confidence, self-advocacy, autonomy, resilience, and stress, improving mental health and mental wellbeing.

Recommendations from the organisational reports

From the initial searches ([August 2021](#))

The [Association of Colleges](#) (2021b) provided a list of recommendations for policy makers, colleges and for their own organisation to help improve students' wellbeing. The rapid review by Spours et al. (2020) did not find any systematic reviews in this area for post-16 learners and reported only on the grey literature, particularly summarising the recommendations found within the Association of Colleges (2021b) report and the Sixth Form Associations rapid review (Sixth Form Colleges Association 2021). These recommendations can be found in [Table 1](#). In addition to these recommendations, the [Sutton Trust](#) (Holt-White and Cullinane 2021) suggested that Universities should provide additional wellbeing support for students.

From the update searches (June 2022)

[International evidence](#) (Ndaruhutse et al. 2021), predominantly from LMICs for early interventions indicates that using digital technologies to build connections and retain routine during school closures, interventions to monitor, report and stop abuse, and interventions for improving the mental health system can support the wellbeing of school children of all ages ([Table 1](#)).

Findings from rapid evidence assessments

From the update searches (June 2022)

The [rapid evidence assessment](#) reported the promotion of a positive school climate, in-school counselling and mental health services, online therapeutic courses and use of creative writing, activities aiming at sharing experiences, and other preventative measures such as disaster education had been undertaken to improve pupil wellbeing (Page et al 2021a).

2.2 Effectiveness of methods of support for progressing with learning

Evidence of success on progressing learning

The methods of support for learners that have *evidence of success* in enabling individuals to progress with their learning are reported in Table 2 where they are highlighted in green and hyperlinked to the main data extraction tables (see Appendix) where further information is available.

From the initial searches ([August 2021](#))

- **Additional tutor support by trained and qualified teacher** in the subject of study, such as **one to one tuition** (EEF 2021a), **small group tuition** (EEF 2021b), **learner-led peer support sessions** (EEF 2021c), **mentorship** (EFF 2021d), **metacognition and self-regulation** (EFF 2021g) have demonstrated positive impact for 3-18 year olds enabling them to progress with their learning. Although mentoring can have a negative impact with unsuccessful pairing of mentor and mentee (EEF 2021d).
- **Additional hours of tuition on chosen course** of study, such as **extension of the teaching day** (EEF 2021f) or **additional teaching during school holidays** (EEF 2021e) were successful in enabling 3-18 year olds to progress with their learning. **Specific summer interventions** for low income, high potential students transitioning to FE (Renbarger and Long 2019) were also successful.
- **Additional hours of tuition for maths and English** such as specific interventions for maths and English literacy **in the classroom**, level 2 maths **embedded in vocational studies**, **writing interventions** for English literacy (Maughan et al. 2016) have demonstrated positive impact for 16–18-year olds enabling them to progress with their learning.
- Other approaches which included **scholarships**, **financial aid**, **college information** in the USA (Renbarger and Long 2019) and interventions designed to **keep disadvantaged youth in college once admitted** (Valentine et al. 2009).

From the update searches (June 2022)

- **High dose tutoring in English and Maths, extended school days, catch-up schemes for literacy** have demonstrated positive impact for 5-18 year olds enabling them to progress with their learning Page et al 2021a).
- **Teacher led one to one or small group tutoring sessions** conducted during the school day have substantial effects on learning for those aged 3 to 18 years
- **Tutoring programmes in Literacy and Maths** yield consistent and substantial **positive impacts** on learning outcomes (pooled effect size estimate of 0.37 SD) . Effects are **stronger**, on average, for **teacher and paraprofessional tutoring programs** than for nonprofessional and parent tutoring and among the **earlier grades**. Overall effects for reading and math interventions are similar, reading tutoring tends to yield higher effect sizes in earlier grades, while math tutoring tends to yield higher effect sizes in later grades. Tutoring programs conducted **during the school day** tend to have a **larger impact** (Nickow et al. 2020).

Mixed evidence on progressing learning

The methods of support for learners that have *mixed evidence* in enabling individuals to progress with their learning in post-16 settings are reported in Table 2 where they are

highlighted in blue and hyperlinked to the main data extraction tables (see Appendix) where further information is available.

From the initial searches ([August 2021](#))

- **Additional tutor support** such as **mentoring for youth and young adults with learning disabilities** in the **USA** (Lindsay et al 2016).
- **Additional hours of tuition for maths and English** for 16-18 year olds such as English literacy taught across the curriculum and supporting maths teaching as additional hours of tuition on chosen course of study (Maughan et al. 2016).
- **Additional assessed work** for low income, high potential students transitioning to FE in the USA such as **early access to college work** including **advanced placement, International Baccalaureate and dual credit** (Renbarger and Long 2019).
- Other approaches in the USA including non-academic interventions for postsecondary enrolment (Schmidt and Park 2021).

No demonstrable benefits on progressing learning

The methods of support for learners that have shown *no demonstrable benefit* in enabling individuals to **progress with their learning in post-16 settings** are reported in **Table 2** where they are **highlighted in yellow** and hyperlinked to the main data extraction tables (see Appendix) where further information is available.

From the initial searches (August 2021)

- Withdrawing students from core lessons for extra English catch-up as additional hours of tuition on chosen course of study (Maughan et al. 2016).

Negative effect on learning

The methods of support for learners that have shown a negative effect on learning outcomes are reported in **Table 2** where they are **highlighted in red** and hyperlinked to the main data extraction tables (see Appendix) where further information is available.

From the update searches (June 2021)

- Repeating a year for 3-18 year olds was found to have a negative effect on learning (EEF 2021h).

No evidence available

No evidence was found to enable an evaluation of the following methods of support

- **Whole or merged group additional tutor support** by trained and qualified teacher in the subject of study.
- **Qualified teacher-led or independent study** as additional tutor support by trained and qualified teacher in the subject of study.
- **Online synchronous, online asynchronous, or in-person face-to-face additional tutor support** by trained and qualified teacher in the subject of study.
- Spours et al. 2021 reported that evidence from one systematic review suggested that **improved training, collaborative learning & more blended learning** are required to support catch-up in FE settings.

- There was **no systematic review evidence** on **mitigating** the increased **educational inequalities** directly relevant to the FE Sector (Spours et al. 2021)

2.2.1 Bottom line results for methods of support for progressing with learning

This section summarised the evidence from 14 systematic reviews (10 including a meta-analysis), one rapid review, and five broader organisational reports **from pre-pandemic contexts and** one international policy and grey literature review and one rapid evidence assessment related to COVID-19 and/or other disasters. Evidence from systematic reviews demonstrated catch up programmes, one to one tuition, small group tuition, learner-led peer support sessions, extension of the teaching day, additional teaching during school holidays, specific summer interventions, mentorship, metacognition and self-regulation, maths and English literacy in the classroom, level 2 maths embedded in vocational studies, writing interventions for English literacy scholarships, financial aid, college information have demonstrated **positive impact for 3-18 year olds and post-16 learners** enabling them to progress with their learning (pre COVID-19). In-particular **high dose tutoring**¹ and **teacher led** one to one or small group tutoring sessions have a **larger impact**. English literacy taught across the curriculum and supporting maths teaching, early access to college work, including advanced placement, International Baccalaureate and dual credit and a range of other non-academic approaches as methods of support that can be beneficial to support learning among 3-18 year olds and post-16 learners (pre COVID-19). Evidence from one systematic review showed no demonstrable benefit of withdrawing students from core lessons for extra English catchup (pre COVID-19). The rapid review by Spours et al (2020) identified that there was **no systematic review evidence on mitigating** the increased educational inequalities directly relevant to the FE Sector as a result of the COVID-19 pandemic. Pre-pandemic evidence additionally suggests that repeating a year does help gain lost learning.

2.3 Effectiveness of methods of support for improving student wellbeing

Evidence of success on improving wellbeing

The methods of support that have evidence of success on **improving student wellbeing in post-16 settings** are reported in **Table 3** where they are **highlighted in green** and **hyperlinked** to the main data extraction tables (see Appendix) where further information is available.

From the initial searches ([August 2021](#))

- **Support from NHS Children and Adolescent Care Services** including **screening** (SFCA 2021), and **effective referral pathways to clinical treatment** (SFCA 2021) for older teenagers and those in sixth form colleges (SFCA 2021).
- **Support from trained internal or external staff**, such as **mindfulness** (Halladay et al. 2019; White 2017a, b), **counselling** (SFCA 2021), **physical activity** (SFCA 2021) and interventions aiming **to improve sleep** (SFCA 2021) across all ages (4 years to HE).

¹ High dose tutoring - three or more sessions per week or intensive individual or small-group programmes

Mixed evidence on improving wellbeing

The methods of support that have ***mixed evidence*** on **improving student wellbeing in post-16 settings** are reported in **Table 3** where they are highlighted in blue and hyperlinked to the main data extraction tables (see Appendix) where further information is available.

From the initial searches ([August 2021](#))

- **Specific social and emotional learning** (White 2017a, b) and **therapy-based prevention programmes** (SCFA 2021) that are provided by trained internal or external staff.
- Interventions that aim to build **self-confidence and wellbeing**, such as mentorship (Lindsay et al. 2016); and post-secondary transition interventions (Lindsay et al. 2019).

No evidence

No evidence was found to enable an evaluation of for the following methods of support

- **Support from family and friends** to improve student wellbeing in post-16 settings.

2.3.1 Bottom line results for methods of support for improving student wellbeing

This section summarised the evidence from three systematic reviews (one included a meta-analysis), three rapid reviews and two broader organisational reports from pre-pandemic contexts and one international policy and grey literature review and one rapid evidence assessment related to COVID-19 and/or other disasters. **Pre-pandemic** evidence from one rapid review demonstrated **screening and effective referral pathway to clinical treatment** are beneficial in improving student wellbeing for older teenagers and those in sixth form colleges (Pre COVID-19). Additionally, pre-pandemic evidence from the systematic reviews and two of the rapid reviews showed that **mindfulness, counselling, physical activity** and interventions aiming to improve **sleep** are beneficial in improving student wellbeing across all key-stages (pre COVID-19). Pre-pandemic evidence from systematic reviews and evidence syntheses provided mixed results for specific social and emotional learning, therapy-based prevention all key-stages (pre COVID-19) and for interventions that aim to build self-confidence and wellbeing, such as mentorship and post-secondary transition interventions (Lindsay et al. 2019) for post-16 learners (pre COVID-19). The rapid review by Spours et al (2020) identified that there was **no systematic review evidence on mitigating** the increased educational inequalities directly relevant to the FE Sector as a result of the COVID-19 pandemic. Interventions that seek to improve mental health systems, in-school counselling and mental health services, activities that aim to share experiences and other preventative measures can support the wellbeing of school aged children post COVID.

Table 1: Summary table of characteristics of organisational reports

Citation Citation retrieval source	Country	Objective	Key relevant recommendations
From initial search August 2021			
Association of Colleges 2021a College catch-up funding and remote education. AoC survey and policy proposal Report template - COVID survey (aoc.co.uk) Retrieved from organisational website	UK	Recommendations for catch-up due to lost learning and wellbeing	Policy proposals i) Fair funding and hours: more funding per student to increase hours of teaching and support towards levels provided in other OECD countries.p.5. ii) Targeted support for the most disadvantaged: extend the student premium from age 16-19, including the service premium and looked after children premium; a specific fund to support High Needs SEND students. p. 5/6 iii) Build self-confidence and wellbeing : a base-rate increase or specific funding for more extra-curricular enrichment activities such as sport, drama, music and volunteering. p. 6 iv) Education recovery year: students finishing this year to have access to up to a year of fully funded additional study where needed, including a bursary to support students to participate. p.6
Association of Colleges 2021b Mental health and colleges https://www.aoc.co.uk/sites/default/files/Mental%20Health%20in%20Colleges%20-%20Report.pdf Retrieved from organisational website	UK	Recommendations for improving mental health	Recommendations for Policy Makers: <ul style="list-style-type: none"> • Create a national fund to support the transition and retention of 16 year olds into colleges in September 2021, targeting most vulnerable learners • Ensure all policies have an assessment of their impact on the mental health of staff and students • Ensure that investments and training opportunities relating to mental health and for education settings take specific account of the needs of FE colleges and their whole learner population • Explore the potential to roll out the social prescribing model, using physical activity and other enrichment activities to promote student wellbeing Recommendations for Colleges: <ul style="list-style-type: none"> • Develop additional support programmes for learners with mental health difficulties or deemed vulnerable to support smooth transition and aid retention • Sign the AoC Mental Health and Wellbeing Charter and annually evidence how the meet all 11 commitments • Engage with the local suicide prevention plan • Ensure all staff have access to suicide awareness training • Carry out regular surveys of college populations in order to build an evidence base and understand the efficacy of different interventions. • Undertake annual staff wellbeing surveys • Continue to engage with local health commissioners to ensure they are involved in local and national initiatives aimed at the mental health of young people Recommendations for AoC <ul style="list-style-type: none"> • Work with experts to develop specific resources for suicide prevention for FE colleges

			<ul style="list-style-type: none"> Seek opportunities for further research linked to the mental health of learners in FE settings Work with national stakeholders, especially DfE, OfS, Department of Health & Social Care, and NHSE & I to ensure there is a good understanding of the FE setting and those who learn and work in colleges
<p>Crenna-Jennings et al. 2021 Education recovery and resilience in England (Report for the Education Policy Institute) https://epi.org.uk/publications-and-research/education-recovery-and-resilience-in-england/</p> <p>Retrieved from organisational website (Report for the Education Policy Institute)</p>	UK	<p>Recommendations for supporting support young people during transitions, between education and into employment</p>	<p>A targeted approach to mitigate the inequitable impact of the pandemic and support young people during transitions, between education and into employment, are laid out below.</p> <p>i) Extend the 16-19 Tuition Fund for a further two years p.39</p> <p>ii) Provide funding to extend 16-19 courses for an additional year where there is demand p.40</p> <p>iii) Fund post-16 places in Alternative Provision p.40</p> <p>iv) Fund a new 16-19 Student Premium p.41</p>
<p>Holt-White and Cullinane 2021 A levels and University access 2021 https://www.suttontrust.com/wp-content/uploads/2021/07/A-Level-and-University-Access-2021.pdf</p> <p>Retrieved from organisational website (Report for the Sutton Trust)</p>	UK	<p>Discusses impact of COVID-19 on learning, assessment and University applications and entry and present recommendations for universities, schools, and policy makers</p> <p>Wellbeing</p>	<p>For universities</p> <ul style="list-style-type: none"> Applicants from disadvantaged backgrounds who have narrowly missed their offer grades should be given additional consideration in the admissions process. p.13 Universities should provide additional wellbeing supports for the incoming cohort. p. 13 Universities should identify key gaps in learning at an early stage in the first term, and provide support if necessary. p.13 <p>For schools</p> <ul style="list-style-type: none"> It is more important than ever for schools to provide as much support to students as possible around results day and during the clearing period, which could be done remotely if necessary. p.13 <p>For policymakers</p> <ul style="list-style-type: none"> Pupil premium and recovery premium funding, as well as National Tutoring Programme provision, should be extended to 16-19 year olds in education and training. p.13 Data on this year's GCSE and A Level results should be made available to researchers at an early stage as possible, in order to understand patterns in this year's results. p.13 There must be a long-term plan for assessment in 2022 and beyond. p.13.
<p>The Sutton Trust 2021 Fairness first: Social mobility, COVID and education recovery https://www.suttontrust.com/wp-content/uploads/2021/05/Fairness-First-Social-Mobility-COVID-Education-Recovery.pdf</p> <p>Retrieved from organisational website</p>	UK	<p>Policy brief that outlines outline how the Sutton Trust believes they can make it a fairness-first recovery</p>	<p>Pupil premium and recovery premium funding should be extended to 16-19 year olds in education and training. p. 3</p> <p>The National Tutoring Programme should be extended to those in post-16 education to ensure quality provision. p. 3</p>

From update search June 2022			
<p>Gershenson and Lomax 2021 Learning recovery and a diverse workforce: a win-win for students hardest hit by COVID-19 https://compcenternetwork.org/sites/default/files/Learning%20Recovery%20and%20a%20Diverse%20Workforce_Final.pdf</p> <p>Retrieved from database search</p>	<p>USA</p>	<p>Brief that outlines learning recovery for diverse students</p>	<p>Tutoring - an effective option for learning recovery that generates statistically and educationally significant improvement at all grade levels.</p> <p>Key features of successful tutoring programmes p. 4.</p> <p>Frequency –when delivered in high doses with three or more sessions per week or intensive individual or small-group programmes (“high dosage” tutoring).</p> <p>Personnel - provided by a dedicated and consistent staff of tutors, be they teachers, paraprofessionals, or volunteers, who have received proper training and ongoing support.</p> <p>Group Size - tutors can effectively instruct up to three or four students at a time. One-to-one tutoring is likely most effective but also more costly.</p> <p>Delivery Mode - Most research has focused on in-person tutoring, but there is emerging evidence that tutoring can be effective when delivered at a distance.</p> <p>Other best practices for tutoring programmes p .4.</p> <p>Extended time learning programmes</p> <p>Summer programmes - a combination of academic and enrichment activities. These programmes should be offered for at least five to six weeks during the summer and focus on academic content at least three to four hours per day. Summer programmes are less individualized than high-dosage tutoring, but small groups are preferable. A successful summer programme trains and supports a motivated staff of educators who maintain high, grade-level standards. p. 3.</p> <p>Afterschool programmes - these programmes provide an opportunity to incorporate deeper learning by connecting students with content aligned with their cultural backgrounds and lives outside of school. They also provide additional opportunities for exposure to same-race teachers, counsellors, and mentors. p.3.</p> <p>A wide body of evidence shows that students, particularly students of colour, benefit from even a single exposure to a teacher, mentor, role model, or recitation leader of the same race or ethnicity. p. 4.</p>
<p>Ndaruhutse et al. 2021 Learning loss, learning gains and wellbeing: a review of policy and grey literature. https://www.educationdevelopmenttrust.com/EducationDevelopmentTrust/files/aa/aa85cd49-c1f3-403a-a063-4bbd7c1b2215.pdf</p> <p>Retrieved from organisational website</p>	<p>Worldwide Mainly LMICs</p>	<p>Chapter 5. Potential mitigation strategies for reducing academic learning losses</p> <p>Chapter 7: Wellbeing interventions</p>	<p>The Accelerated Education Working Group (AEWG) (2020) has compiled evidence on strategies to help education recovery following the COVID-19 pandemic:</p> <p>1. Extended instructional time This involves slightly adapting the academic calendar and schedule (e.g. longer school days for a period or reducing the length of the long school holiday). This may be appropriate when learners have only missed a short period of school or were kept broadly on track with distance learning.</p> <p>2. Catch-up programmes A short-term transitional education programme for children and youth who had been actively attending formal school prior to an educational disruption, which provides students with the opportunity to learn content missed because of the disruption and supports their re-entry to the formal system</p> <p>3. Remedial education This involves additional targeted support alongside regular classes and can be provided in formal and non-formal education, catch-up programmes, or accelerated education programmes.</p>

			<p>4. Accelerated education programmes (AEPs) These allow students to obtain equivalent, certified competencies and transition into formal education (primary, secondary, technical and vocational training) or into livelihoods. They are appropriate if learners have been out of school for a year or more and are over-age for their grade. The programme is able to accelerate learning by condensing the curriculum, concentrating on basic skills and competencies, having smaller classes and allowing more time on learning tasks</p> <p>Mitigation 1: Catch-up and remedial programmes Remedial education and additional instruction time were “promising” interventions for improving learning outcomes (Chile, Mexico, India, Botswana, the Philippines, Ethiopia, Rwanda) p. 30/31</p> <p>Mitigation 2: Condensed curriculum Another mitigation measure is to look at condensing the curriculum to enable students to spend more time to catch up on and then focus on core content. Accelerated education is something that has already been planned in Ecuador, the Philippines and South Africa. p. 31.</p> <p>Mitigation 3: Potential low-tech solutions The evaluation of two low-tech solutions in Botswana provides some experimental estimates of reducing the negative impact of COVID-19 on learning and presented mixed results.</p> <p>Mitigation 4: Tutoring directly linked to classroom content Evidence from the United States has shown that tutoring programmes can help to accelerate learning in mathematics and reading for students who are struggling. Investments have been made in tutoring programmes across Australia and UK. In Mexico, a government-run mobile tutoring programme sends recent university graduates to work in schools serving rural and marginalised communities</p> <p>What doesn't work A UNESCO (2020) study on effective catch-up learning strategies drawing from evidence in the United States found three common strategies that do not work. These include:</p> <ol style="list-style-type: none"> 1. Retention Where students that have fallen behind their peers are required to repeat an academic year 2. Social promotion Where students continue with their age peers regardless of their academic performance 3. Repetition Teaching again content that students previously failed to learn
<p>Ndaruhutse et al. 2021 Learning loss, learning gains and wellbeing: a review of policy and grey literature. https://www.educationdevelopmenttrust.com/EducationDevelopmentTrust/files/aa/aa85cd49-c1f3-403a-a063-4bbd7c1b2215.pdf</p> <p>Retrieved from organisational website</p>	<p>Worldwide</p> <p>Mainly LMICs</p>	<p>Chapter 7: Wellbeing interventions</p>	<p>Three early intervention measures recommended include:</p> <ol style="list-style-type: none"> 1. Using digital technologies to enable people to feel connected, and for children, develop and implement a routine for each day especially while schools remain closed; 2. Putting in place mechanisms for monitoring, reporting and intervening in cases of violence and abuse; and 3. Bolstering the mental health system to deal with a greater caseload.

Table 2: Summary of which methods of support for learners are successful in enabling individuals to progress with their learning

Support measure/s	Type of research evidence	
	Pre-COVID	Post-COVID
Additional tutor support by trained and qualified teacher in the subject of study		
<i>Group size</i>		
One to one	EEF 2021a Systematic review and meta-analysis 3-18 years International literature Outcomes: Additional months progress in learning (n=123 studies) Authors quality rating: Moderate	
Small group	EEF 2021b Systematic review and meta-analysis 3-18 years Mainly USA literature Outcomes: Additional months progress in learning (n=62 studies) Authors quality rating: Moderate	
One to one or small groups	Nickow et al 2020. Systematic review and meta-analysis 3-18 years International Outcomes: Additional months progress in learning (n=96) Authors quality rating : Strong	
Whole group ^a		
Merged groups ^a		
<i>Type of study</i>		
Qualified teacher-led sessions ^a		
Independent study ^a		

Learner-led peer support sessions	EEF 2021c Systematic review and meta-analysis 3-18 years International literature Outcomes: Additional months progress in learning (n=127 studies) Authors quality rating: High (score of 4 out of 5)	
Mentoring	EEF 2021d Systematic review and meta-analysis 3-18 years International literature Outcomes: Additional months progress in learning (n=44 studies) Authors quality rating: Moderate	
Mentoring	Lindsay et al .2019 Systematic review Youth and young adults with learning disabilities Mainly USA literature Outcomes: College enrolment and transitions (n=not reported) Authors quality rating: Level II (n=4), Level III (n=2), Level IV (n=4) for those with positive outcomes	
<i>Mode of delivery^a</i>		
online synchronous ^a		
online asynchronous ^a		
in-person face-to-face ^a		
Additional hours of tuition on chosen course of study		
In the normal teaching term and days		
Level 2 maths <u>Specific interventions in maths classroom</u>	Maughan et al. 2016 Systematic review 16-18 years International literature Outcomes: Educational attainment (n=3 studies) Authors quality rating: Variable some robust	

<p>Level 2 English literacy <u>Specific interventions in English classroom</u></p>	<p>Maughan et al. 2016 Systematic review 16-18 years International literature Outcomes: Educational attainment (n=6 studies) Authors quality rating: Variable some robust</p>	
<p>Level 2 English literacy Taught across the curriculum</p>	<p>Maughan et al. 2016 Systematic review 16-18 years International literature Outcomes: Educational attainment (n=3 studies) Authors quality rating: Weak</p>	
<p>Level 2 maths Supporting maths teaching</p>	<p>Maughan et al. 2016 Systematic review 16-18 years International literature Outcomes: Educational attainment (n=3 studies) Authors quality rating: Variable</p>	
<p>Level 2 maths Embedded in vocational studies</p>	<p>Maughan et al. 2016 Systematic review 16-18 years International literature Outcomes: Educational attainment (n=3 studies) Authors quality rating: Variable</p>	
<p>Level 2 English: Withdrawing students from core lessons for extra catch-up</p>	<p>Maughan et al. 2016 Systematic review 16-18 years International literature Outcomes: Educational attainment (n=2 studies) Authors quality rating: Weak</p>	
<p>Level 2 English <u>Writing interventions</u></p>	<p>Maughan et al. 2016 Systematic review 16-18 years International literature Outcomes: Educational attainment (n=1 study) Authors quality rating: Robust</p>	

Through holiday schools in Dec, April or June	EEF 2021e Systematic review and meta-analysis 3-18 years International literature Outcomes: Additional months progress in learning (n=59 studies) Quality: Low	
Through extension of the teaching day	EEF 2021f Systematic review and meta-analysis 3-18 years International literature Outcomes: Additional months progress in learning (n=74 studies) Authors quality rating: Moderate	
Specific summer intervention	Renbarger and Long 2019 Systematic review Low income, high potential students transitioning to FE USA literature Outcomes: Accessing college and non-cognitive support (n=1 study) Authors quality rating: Score of 3 out of 4	
Repeating a year	EEF 2021h Systematic review and meta-analysis 3-18 years International literature Outcomes: Additional months progress in learning (n=71 studies) Authors quality rating: Low	Ndaruhutse et al 2021 Narrative comment
Outside of mainstream teaching (private tuition)		
<u>Level 2 maths</u>	Maughan et al. 2016 Systematic review 16-18 years International literature Outcomes: Educational attainment (n=2 studies) Authors quality rating: Weak	

Training for students in meta-cognition to enable them to assess their own learning and learning needs		
<u>Metacognition and self-regulation</u>	EFF 2021g Systematic review 3-18 years International literature Outcomes: Additional months progress in learning (n=246 studies) Authors quality rating: High	
Additional assessed work		
<u>Early access to college work (Advanced Placement/ International Baccalaureate and dual credit)</u>	Renbarger and Long 2019 Systematic review Low income, high potential students transitioning to FE USA literature Outcomes: Student experience and student success (n=5 studies) Authors quality rating: Score of 3 out of 4	
Other		
<u>Scholarships and Financial aid</u>	Renbarger and Long 2019 Systematic review Low income, high potential students transitioning to FE USA literature Outcomes: Accessing college (n=9 studies) Authors quality rating: Score of 3 out of 4	
<u>College information</u>	Renbarger and Long 2019 Systematic review Low income, high potential students transitioning to FE USA literature Outcomes: college applications (n=1 study) Authors quality rating: Score of 3 out of 4	
<u>Interventions designed to keep disadvantaged youth in college once they got there</u>	Valentine et al. 2009 Systematic review Students who were either at increased risk for college failure (e.g., were identified as high-risk admits) or were on academic probation International literature Outcomes: Short term grades and persistence (n=19 studies) Authors quality rating: Poor	

Non-academic interventions for postsecondary enrolment	Schmidt and Park 2021. Systematic review Post -secondary students in rural and high-poverty areas USA literature Outcomes: Student post-secondary enrolment, academic performance and completion. (n=17 studies) Authors quality rating: NR	
Improved training; Collaborative learning; Blended learning.		Spours et al. 2021 Narrative comment

Key: FE: further education; MA; meta-analysis; NR: not reported

^a We did not find any evidence for this area but this does not imply that no evidence exists and focused searches are recommended





-  Intervention has been shown to have a positive effective on the outcome of interest /
-  Intervention has been shown to have no benefit on the outcome of interest
-  Intervention has been shown to have a negative effect on the outcome of interest /
-  Intervention has shown to have a positive and a negative effect on the outcome of interest

Table 3: Summary of which methods of support are beneficial for improving student wellbeing

Support measure/s	Type of research evidence	
	Pre-COVID	Post-COVID
Support from family and friends		
Support from NHS Children and Adolescent Care Services		
Screening	<p>SFCA 2021 1 RR – 1 Meta-analysis, 4 opinion articles, 1 study Older teenagers and those in sixth form colleges^a International literature Outcomes: Mental health Quality: NR</p>	
Effective referral pathways	<p>SFCA 2021 1 RR – 1 opinion article Older teenagers and those in sixth form colleges^a International literature Outcomes: Mental health Quality: NR</p>	
Support from trained internal or external staff		
Mindfulness	<p>White 2017a, b 1 RR – 2 SRs 4-15 years International literature Outcomes: Cognitive outcomes and resilience and stress measures Quality: Low to moderate</p> <p>Halladay et al. 2019 Systematic review Healthy postsecondary students including undergraduate, graduate, college, and health professional studies who have anxiety or depressive symptoms. International literature Outcome: Improved anxiety, depressive symptoms, and reduced stress (n=41 RCTs in 49 studies) Quality: Low to high</p>	

	<p><u>SFCA 2021</u> 1 RR – 2 SRs, 1 study Older teenagers and those in sixth form colleges^a International literature Outcomes: Anxiety and depression Quality: NR</p>	
Counselling	<p><u>SFCA 2021</u> 1 RR – 1 SR, 1 Meta-analysis, 1 study Older teenagers and in sixth form colleges^a International literature Outcomes: Mental health Quality: Low to moderate</p>	
Physical activity interventions	<p><u>SFCA 2021</u> 1 RR - 1 Meta-analysis and 1 review of reviews Older teenagers and in sixth form colleges^a International literature Outcomes: Mental health Quality: Low to NR</p>	
Improving sleep	<p><u>SFCA 2021</u> 1 RR – 1 SR, 1 Meta-analysis Older teenagers and in sixth form colleges^b International literature Outcomes: Mental health Quality: NR</p>	
Specific social and emotional learning programmes	<p><u>White 2017a, b</u> 1 RR – 1 SR, 3 studies 4 -5 years International literature Outcomes: Wellbeing outcomes Quality: NR</p>	
Therapy-based prevention programmes	<p><u>SFCA 2021</u> 1 RR – 10 SR /meta-analyses, 2 studies Older teenagers and in sixth form colleges^a International literature Outcomes: Anxiety and depression Quality: NR</p>	




Building self-confidence and wellbeing		
Through extra-curricular activities		Association of Colleges Survey and policy proposal
in-school counselling and mental health services, activities that aim to share experiences and other preventative measures		Page et al 2021a Narrative comment
Improving mental health systems		Ndaruhutse et al 2021 Narrative comment
Mentorship	Lindsay et al. 2016 23 studies Youth with disabilities transitioning to PSE or employment International literature Outcomes: Self-determination, empowerment self-efficacy, self-confidence and self-advocacy Quality: Level III (n=3) and level IV evidence (n=20)	
Post-secondary transition interventions ^c	Lindsay et al. 2019 18 studies Youth with disabilities transitioning to PSE or employment Mainly USA studies Outcomes: self-determination, self-confidence, social and vocational self-efficacy, autonomy, social support and career exploration Quality: Level II (n=4), Level III (n=2), Level IV (n=4) for those with positive outcomes	

Key: NR: not reported; RR: rapid review; PSE: post-secondary education; SR: systematic review

^a The review included studies looking at younger children and pupils in secondary schools where it answered the review where it is particularly relevant to the review question or when evidence for older teenagers was not available

^b One SR included adults

^c Curriculum-based programmes, online programmes, immersive college residential programmes, mentoring programmes, simulations, self-directed programmes, technology-based programmes, and multi-component programmes. Data synthesis pooled across all programmes.

-  Intervention has been shown to have a positive effective on the outcome of interest
-  Intervention has shown to have a positive and a negative effect on the outcome of interest
-  Intervention has been shown to have no benefit on the outcome of interest

DISCUSSION

3.1 Summary of the findings

An initial search of the literature identified a paucity of COVID-19 pandemic specific evidence regarding methods of support for 16-19 year old learners in enabling individuals to progress with their learning or to improve their wellbeing. Searches conducted in August 2021 identified only one systematic review protocol (Bangpan et al. 2020), which has been published since (Shi et al. 2022), and two rapid reviews (Spours et al. 2021; SFCA 2021) that specifically sought to address learning loss and/or mental health issues relating to the pandemic. This rapid review therefore extended the search to learners aged 16-19 years old who have experienced significant gaps in their education for any reason, whether through disadvantage or from regions struck by past disease, conflict, natural disasters etc. as well as any COVID-19 pandemic-specific studies.

However, there were **no systematic reviews of any coordinated catch-up activities or wellbeing initiatives after disruptions due to the COVID-19 pandemic** or any other past crisis from other countries such as Hurricane Katrina or the Christchurch Earthquake in New Zealand. The available evidence was therefore drawn from reviews that focused on raising the attainment of learners facing disadvantage and reducing inequalities in educational outcomes in **pre-pandemic contexts**. Systematic reviews of wellbeing initiatives all drew on the wider literature of school and college-based approaches improving mental health that had been published prior to the COVID-19 pandemic. While updating this rapid review in June 2022, two organisational reports (Gershenson and Lomax 2021, Ndaruhutse et al. 2021) and a rapid evidence assessment (Page et al. 2021a) were discovered, which presented evidence related to learning recovery and wellbeing interventions following the COVID-19 pandemic. This could support the applicability of interventions tested pre-COVID-19 pandemic.

Low quality evidence from systematic reviews demonstrated that one-to-one tuition, small group tuition, learner-led peer support sessions, extension of the teaching day, additional teaching during school holidays, specific summer interventions, maths and English literacy in the classroom, level 2 maths embedded in vocational studies, writing interventions for English literacy, scholarships, financial aid, college information have demonstrated **positive impact for 15-16 year olds and post-16 learners** enabling them to progress with their learning (pre COVID-19). No direct systematic review evidence directly investigating methods of support post COVID-19 for learners that enable them to progress with their learning in post-16 settings was found. Based on an update of this rapid review, low quality evidence from a systematic review conducted pre-COVID and a rapid evidence assessment containing research related to the COVID-19 pandemic found that high dosage tutoring, and teacher-led one-to-one or small group tutoring during school time can have a positive impact on learning outcomes of school aged children up to 18 years (Nickow et al. 2020, Page et al. 2021a). However, evidence from an organisational report (post COVID), and a systematic review (pre-COVID) suggests that repeating a year is an ineffective intervention which can have negative impact on learners' progression (Ndaruhutse et al. 2021, Page et al 2021a).

Low quality evidence from rapid reviews and systematic reviews demonstrated that screening and effective referral pathway to clinical treatment are beneficial in improving **student wellbeing for older teenagers and those in sixth form colleges** (pre COVID-19). The best quality evidence was for mindfulness (low to high quality) with counselling (low quality), physical activity (low quality) and interventions aiming to improve sleep (low quality) were found to be beneficial in improving student wellbeing across all key-stages (pre COVID-19). No direct systematic review evidence directly investigating methods of support post COVID-19 for improving student wellbeing in post-16 settings was found. Based on the June 2022 update of this rapid review, an organisational report and a rapid evidence assessment (post COVID) found that improving mental health services, in-school counselling and support, implementing activities that focus on sharing experiences, and other preventative measures could aid student's wellbeing.

3.2 Limitations of the available evidence

This rapid review was conducted to inform strategies to support 16-19 years old learners who have experienced significant gaps in their education because of the COVID-19 pandemic. Much of the review evidence included, however, relates to learning and wellbeing support in other circumstances. This, of course, does not mean that interventions applied in other situations may not be relevant, but it could be argued that the pandemic has brought together a unique set of conditions, not only involving disruption to education, but also to environmental, economic, social and emotional areas of young people's and their families' lives. It **is not possible to say whether an intervention that was found to be successful in relatively "normal" circumstances will be as successful in these difficult times**. All the included organisational reports do address post-pandemic recovery but, again, their authors must rely on limited evidence and the application of knowledge and expertise to produce recommendations to be applied in a set of circumstances that have not been experienced before.

All the included systematic reviews in this rapid review, with the exception of one which scored 'high' (Halladay et al. 2019) were rated 'critically low' (see Section 5.6 for details of rating and implications). According to AMSTAR guidance, critically low means that they "should not be relied on to provide an accurate and comprehensive summary of the available studies" (p. 6, Shea et al. 2017). Some of these studies had obvious flaws; Lindsay et al. (2016) and (2019), and Schmidt and Park (2021) all chose to focus on studies or interventions that showed positive outcomes to the exclusion of others. The other included systematic reviews also rated critically low due to poor reporting and use of methods (Maughan et al. 2016; Renbarger and Long 2019; Valentine et al. 2009; EEF 2021a, b, c, d, e, f, g, h). Issues with these systematic reviews included lack of transparency regarding quality assessment of the included studies, insufficient search strategies or a single person screening or extracting data. However, it must be acknowledged that these studies have been undertaken by well established organisations and may have been conducted to a higher standard than indicated by their AMSTAR assessment due to the lack of reporting of their methods.

Of the four rapid reviews, one scored six out of six on the RaPeer tool (Spours et al. 2021). The SCFA (2021) scored only one yes (a focused question), and one partial yes (searching for the right type of papers). While Spours et al. (2021) and the SCFA (2021) aimed to address issues brought on by the current COVID-19 pandemic, they were not able to find any evidence about mitigations. Spours et al. (2021) and SCFA (2021) had to draw on pre-pandemic

literature and studies exploring mitigating measures in a younger population. This could potentially **impact on the generalisability of the findings to the current pandemic era, and to post-16 education**. White (2017 a, b) scored five yes, and one no (lack of reporting on critical appraisal) on RAPEer. Moreover, White (2017a, b) was conducted pre-pandemic which could influence the applicability of its findings in the current setting. The organisational reports were not quality appraised; the value of their recommendations and policy proposals is inferred by the reputation for knowledge and professional expertise attached to the organisations themselves. Page et al. 2021a had a fairly good rating on RAPEer, with four yes, one partial yes, and one no scored. A no was given to the question on quality assessment, as this was missing from the rapid review. Partial yes was given to the question on whether recommendations were supported by the results of the review, and even though key evidence statements were highlighted, some of these were only supported by a handful of studies for which quality assessment was not available.

3.3 Implications for policy and practice

The findings of this rapid review, subject to the limitations described, can be used to shape support activity for 16-19 years old learners transitioning into, and engaging with full-time education following significant disruptions to their normal education. Thus, the implications for policy and practice are:

- The apparent **paucity of relevant research** activity among this age group suggests both a need for such activity, and that decision makers are currently limited in the published evidence base available to steer their work.
- Although supported by a limited volume of evidence, **targeting support activity at learners from the most deprived socio-economic backgrounds** has a significant positive impact on their progress.
- **Additional subject specific tutoring** by trained and qualified teachers on a one-to-one or small group basis does have a positive impact on the progress in learning for 3-18 years olds.
- **Peer-led learning support and mentoring schemes** also have a positive impact on the progress of 3-18 year olds.
- Metacognition and self-regulation activities to help students assess their own needs have benefit for 3–18-year-olds to progress their learning.
- **Additional teaching delivered during holiday periods** as well as at the end of the school/college working day have been shown to be successful in promoting progress in 3–18-year-olds and students transitioning to higher education.
- In the USA **scholarships, financial aid, and college information** help high-potential but low income learners progress to higher education. Moreover, **interventions aimed at keeping students at higher education institutions** have a beneficial impact on college retention.
- **Repeating a year** have a **negative impact** on students' learning outcomes, and thus it is not a recommended strategy to help learning recovery.

- Regarding support for wellbeing, help from care services in the form of **screening and an effective referral pathway** to clinical treatment can benefit older teenagers and for youth in sixth form colleges.
- Interventions, such as **counselling, physical activity, and sleep improvement** can positively impact on older teenagers' and sixth form students' wellbeing.
- Additionally, **mindfulness** interventions have shown to be successful in improving wellbeing for a wide range of learners including 4–15-year-olds, and youth in sixth form colleges. The strongest evidence on the beneficial impact of mindfulness exists in postsecondary education.

3.4 Strengths and limitations of this Rapid Review

Limitations of this rapid review mirror the limitations reported by Spours et al. (2021), who described four main factors that limited their research: lack of research into further education measures to mitigate the harms caused by the COVID-19 pandemic, uncertainties caused by the ever-changing pandemic situation, generalisability of existing research to different contexts, insufficient evidence on the feasibility of short and long-term mitigation measures in practice.

Regarding the lack of research in post-16 education, in this rapid review even though eight included systematic reviews were published post pandemic (EEF 2021a, b, c, d, e, f, g; h; Schmidt and Park 2021) these only include pre-pandemic primary studies. Furthermore, as mentioned above in section 3.2, the two included pandemic-related rapid reviews mainly rely on pre-pandemic studies (Spours et al. 2021; SCFA 2021). The five organisational reports were published post-pandemic, although they mainly contain recommendations and discussions on potential recovery routes. This **lack of research into the mitigation of harms caused by the pandemic**, and the uncertainties caused by the changing restrictions can lead to **issues with the generalisability of the findings**, and the potential feasibility and effectiveness of interventions in practice.

Another potential limitation of this rapid review is that we did not find any evidence for some interventions including additional tutor support in whole groups or merged groups, teacher-led support or independent study, the delivery mode of additional tutoring and interventions from family or friends to improve student wellbeing. Nonetheless, this does not imply that no evidence exists. More focused searches are recommended for future research.

The strength of this review is that a thorough search was undertaken by an information specialist across four COVID databases, five non-COVID databases and the websites of 16 organisations were searched. An update has been undertaken in June 2022. Although this was a rapid review in which several of the systematic review processes could have been streamlined, we did not limit the dates of the searches, and it should be noted that data screening, data extraction and critical appraisal of each study were undertaken by different reviewers and then independently checked for accuracy and consistency by the same second reviewer.

The synthesis identified overall that there was reasonable agreement among all the included literature, which may be considered to imply some degree of reliability. There were no

contradictory findings, and the recommendations of the organisational reports were concordant with the findings of the reviews.

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RAPID REVIEW METHODS

5.1 Eligibility criteria

We included any quantitative systematic reviews, rapid reviews, evidence syntheses that explored strategies to support learning and wellbeing among 16-19 year old learners who have experienced significant gaps in their education as a result of the COVID-19 pandemic . Organisational reports that informed the topic were also included.

	Inclusion criteria	Exclusion criteria
Participants	16-19 years	
Settings	Schools and colleges	Higher education
Intervention / exposure	Any	
Comparison	Any	
Outcomes	Related to learners being able to successfully progress with learning and student wellbeing	
Study design	Quantitative systematic reviews, rapid reviews, evidence syntheses	
Countries	Any	
Language of publication	English	
Publication date	No date restrictions All literature relating to the topic both before, during and after the COVID-19 pandemic	
Publication type	Published and preprint	

5.2 Literature search

An initial search of SCOPUS was undertaken ((post 16 education OR post secondary OR further education) AND (learning loss OR progress OR catch up OR wellbeing) AND (COVID* or coronavirus)) followed by analysis of the text words contained in the title and abstract, and of the index terms used to describe the article. This informed the development of a search strategy which was then tailored for each information source ([additional information](#)).

Searches were conducted in [August 2021](#) and updated in June 2022 across nine databases for English language citations and there were no data restrictions. The databases included SCOPUS, Web of Science, ASSIA, ERIC and BEI. The COVID specific databases VA-ESP, L*OVE COVID19, Collabovid and LitCOVID were only searched to address question one as a rapid review was retrieved from searching the organisational websites that addressed question two in relation to COVID. The reference lists of all included studies retrieved were screened for additional studies and forward citation tracking performed using Web of Science. Additionally, 18 organisational websites were searched for publications relating to the topic area (see [additional information](#)).

5.3 Study selection process

All citations retrieved from the database searches were imported or entered manually into EndNote™ (Thomson Reuters, CA, USA) and duplicates removed. Irrelevant citations were removed by searching for keywords within the title using the search feature within the Endnote software. The project team agreed which keywords to use to identify papers which do not meet the inclusion criteria. At the end of this process the citations that remained were exported as an XML file and then imported to COVIDence™. Two reviewers dual screened 20% of the citations using the information provided in the title and abstract, using the software package COVIDence™, and resolved all conflicts. The remaining citations were then screened by a single reviewer, screening with categories of “include” and “exclude”. To streamline the review process, the project team decided against a third category of ‘unsure’ and instead, where there was uncertainty about a citation, it was categorised as ‘include’ to enable a decision to be made based on the full text.

For citations that appeared to meet the inclusion criteria, or in cases in which a definite decision could not be made based on the title and/or abstract alone, the full text of all citations was retrieved.

The full texts were screened for inclusion by one reviewer using a purposely designed form which was piloted using approximately 10 manuscripts. One reviewer then screened full text manuscripts, and another reviewer checked all excluded manuscripts.

5.4 Data extraction

All demographic data were extracted directly into tables by one reviewer and checked by another. The data extracted included specific details about the interventions, populations, outcomes, and findings of significance to the review question and specific objectives. A template for the data extraction process was piloted on manuscripts for each of the included study designs before use. All outcome data were extracted directly into tables by one reviewer and checked by another.

5.6 Quality appraisal

The Assessing the Methodological Quality of Systematic Reviews (AMSTAR-2) tool (Shea et al. 2017) was used to assess the methodological quality of the included systematic reviews. The AMSTAR-2 is a rating system that classifies all reviews' quality level into critically low, low, moderate and high. (1) high—No, or one non-critical weakness: the systematic review provides an accurate and comprehensive summary of the results; (2) moderate—more than one non-critical weakness but no critical flaws: the systematic review provides an accurate summary of the results; (3) low—one critical flaw, with or without non-critical weaknesses: the systematic review may not provide an accurate and comprehensive summary of the results; (4) critically low—more than one critical flaw, with or without non-critical weaknesses: the review should not be relied on to provide an accurate and comprehensive summary of the results. The quality of each eligible systematic review was conducted by two reviewers and any disagreements resolved by a third person.

The Rapid Peer Reviewer Checklist for Rapid Reviews (RaPeer) tool (Hunter 2020) was used to assess the methodological quality of the included rapid reviews. Originally developed for journal reviewers to make rapid decisions, RaPeer is a 15-item checklist that can be divided into two parts. The first part is a 9-item reporting checklist, while the second part is a 6-item quality appraisal tool. This 6-item quality appraisal section was used in this rapid review. Answers to the questions can be yes, partial yes, or no, depending on the information available on methodology in the included rapid reviews. The quality of each eligible rapid review conducted by two reviewers and any disagreements resolved by a third person.

5.7 Data presentation and summary

The data were presented as two interactive summary tables with hyperlinks to the main data extraction table. The framework for this table was provided by the stakeholders. This was accompanied by a narrative summary.

5.9 Assessment of body of evidence

Due to time constraints this rapid review only presents the original review authors own interpretation of the quality of evidence.

EVIDENCE

6.1 Study selection flow chart

The flow of citations through each stage of the review process for the initial search and the update is displayed in a PRISMA flowchart (Page et al. 2021b), see Figures 1 and 2 respectively

6.2 Information available

[Additional information:](#)

1. Full search strategies
2. Critical appraisal scores
3. Excluded studies

ADDITIONAL INFORMATION

7.1 Conflicts of interest

The authors declare they have no conflicts of interest to report.

7.2 Acknowledgements

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7.3 Disclaimer

The views expressed in this publication are those of the authors, not necessarily Health and Care Research Wales. The WCEC and authors of this work declare that they have no conflict of interest.

Figure 1: PRISMA 2020 flow diagram for new systematic reviews and rapid reviews which included searches of databases and other sources

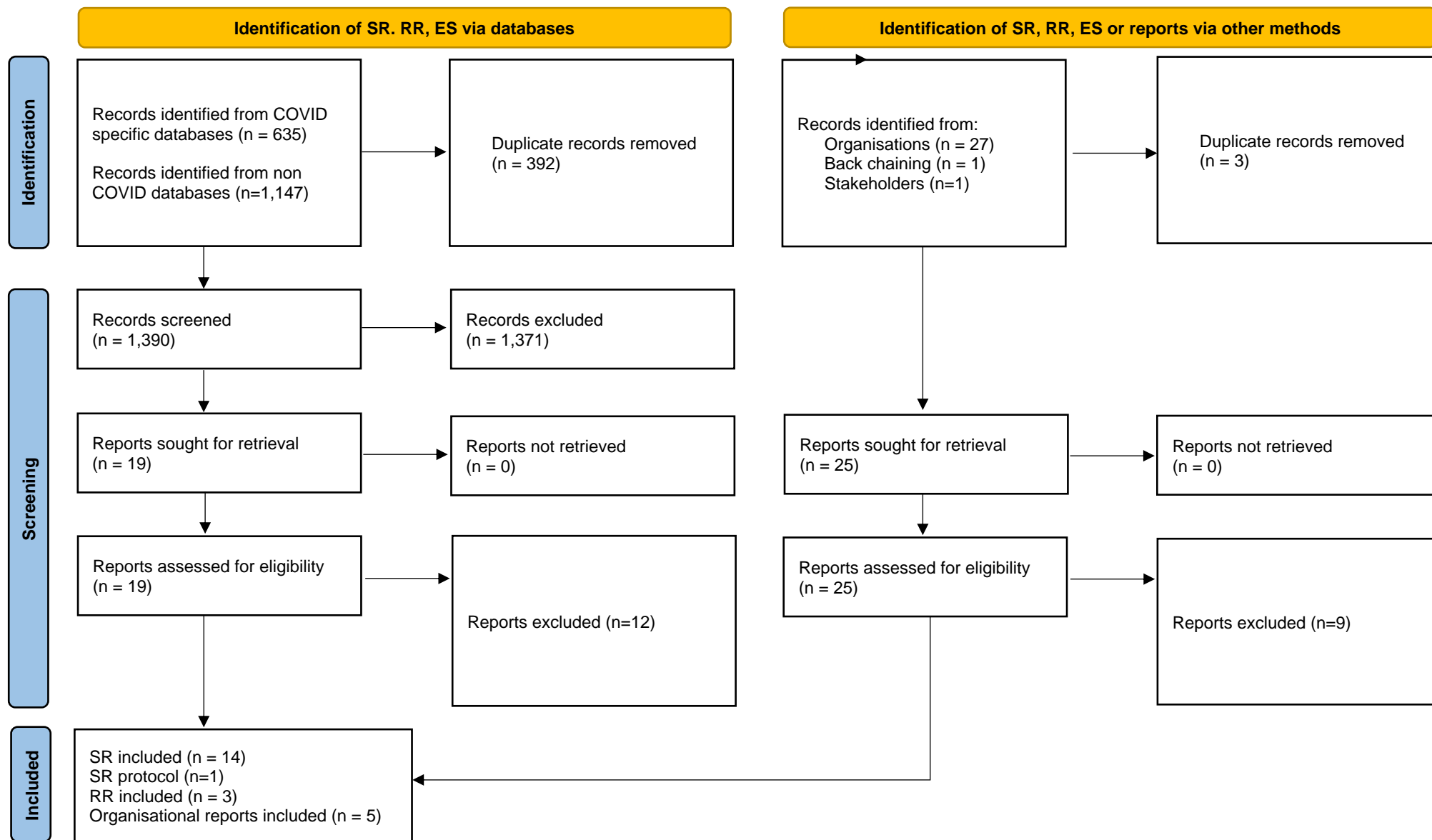
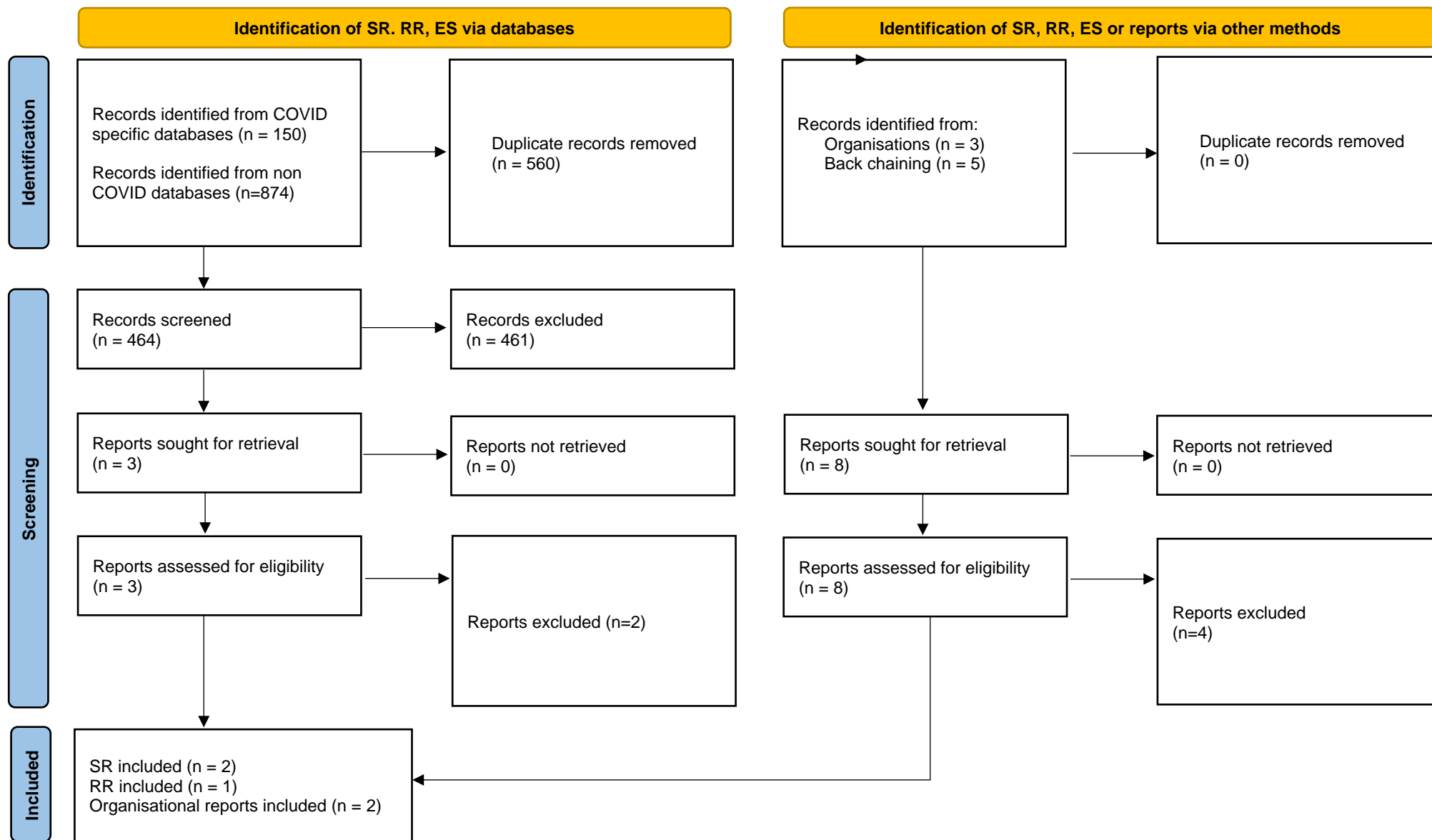


Figure 2: PRISMA 2020 flow diagram for new systematic reviews and rapid reviews which included searches of databases and other sources (June 2022)



ABOUT THE WALES COVID-19 EVIDENCE CENTRE (WCEC)

The WCEC integrates with worldwide efforts to synthesise and mobilise knowledge from research.

We operate with a core team as part of [Health and Care Research Wales](#), are hosted in the [Wales Centre for Primary and Emergency Care Research \(PRIME\)](#), and are led by [Professor Adrian Edwards of Cardiff University](#).

The core team of the centre works closely with collaborating partners in [Health Technology Wales](#), [Wales Centre for Evidence-Based Care](#), [Specialist Unit for Review Evidence centre](#), [SAIL Databank](#), [Bangor Institute for Health & Medical Research/ Health and Care Economics Cymru](#), and the [Public Health Wales Observatory](#).

Together we aim to provide around 50 reviews per year, answering the priority questions for policy and practice in Wales as we meet the demands of the pandemic and its impacts.

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<https://healthandcareresearchwales.org/about-research-community/wales-COVID-19-evidence-centre>

APPENDIX

Summary table of characteristics of systematic reviews and rapid reviews (Retrieved from initial search August 2021)

Citation	Review type and methodology	Objective Outcomes Quality appraisal rating	Key features of interventions Findings
Post 16 education pre COVID			
<p>Bangpan et al. 2020 Understanding the impact of policies/interventions in preparing for, responding to, and recovering from the COVID-19 and other public health emergencies on quality and equity in education. https://www.crd.york.ac.uk/prospero/display_record.php?ID=CRD42020196650</p> <p>Retrieved from COVID specific database</p>	<p>Systematic review and narrative synthesis</p> <p>Protocol registered on PROSPERO database</p> <p><u>Population</u> Primary and secondary school students, teachers, and school management staff/authorities</p>	<p><u>Objectives</u></p> <ul style="list-style-type: none"> What is the impact of COVID-19 on education systems? What evidence is there, on educational policies and interventions relating to COVID-19 and other public health emergencies, aiming to improve quality and inclusiveness in education? What are the effects such educational policies and interventions? <p><u>Outcomes</u> Learning, access to education, equality, and education systems during the COVID-19 pandemic, and other public health emergencies</p>	<p>Authors contacted output expected December 2021</p>
<p>Halladay et al. 2019 Mindfulness for the Mental Health and Wellbeing of Post-Secondary Students: A Systematic Review and Meta-Analysis https://link.springer.com/article/10.1007/s12671-018-0979-z</p> <p>Retrieved from PubMed</p>	<p>Systematic review and meta-analysis</p> <p>49 studies were included in the systematic review, out of which 41 studies were RCTs.</p> <p><u>Intervention</u> Mindfulness-based interventions (MBI) at least two weeks in duration.</p>	<p><u>Objectives</u> Primary objective is to address limitations of previous reviews and synthesize the current literature regarding the effectiveness of MBIs for all post-secondary students on:</p> <ul style="list-style-type: none"> Anxiety Depression <p>Secondary objective was to explore if MBIs are effect at:</p> <ul style="list-style-type: none"> Reducing perceived stress 	<p>Findings: The results of this meta-analysis indicate that, in postsecondary students, MBIs appear to produce small to moderate reductions in symptoms of depression, anxiety, and perceived stress post-intervention when compared to passive control.</p> <p>Results were similar for shorter versus longer interventions.</p>

	<p>No restriction to traditional mindfulness-based stress reduction (MBSR) or mindfulness-based cognitive therapy (MBCT). Authors ensured that interventions in the included papers contained the core components of mindfulness:</p> <ul style="list-style-type: none"> • Grounding in the present moment • Being open and accepting experiences <p>No restriction of methods of delivery (online, in person, guided, unguided), length, or frequency. Combined approaches were only used if controls got the same co-intervention</p> <p><u>Population</u> Postsecondary students, including undergraduates, graduates, college and health professional students. Population only included healthy students who internalise symptoms</p> <p>Students with diagnosed conditions, such as ADHD, or developmental disabilities were excluded from this review</p>	<ul style="list-style-type: none"> • Improving sleep parameters • Reducing substance use • Improving emotion regulation in post-secondary students <p><u>Outcomes</u> Primary outcomes: Anxiety and depressive symptoms excluding diagnosed anxiety disorder or depression Secondary outcomes: Perceived stress, sleep parameters, substance use frequency, emotion regulation.</p> <p><u>Quality appraisal rating</u> High (only one non-critical weakness Item 10)</p>	<p>Studies using MBCT appeared to produce larger effect sizes for depression and anxiety symptoms when comparing to passive control.</p> <p>MBIs of at least 2 weeks in duration appear to be a better alternative than no intervention for students, particularly for reducing symptoms of depression, anxiety, and perceived stress.</p> <p>When comparing to no intervention, traditional MBCT appears to be the most effective for symptoms of depression and anxiety compared to other MBIs.</p> <p>It is important to note that this review found no significant difference between shorter and longer interventions (apart from MBCT), and therefore shorter interventions may provide feasible, brief, and effective strategies for reducing student anxiety, depression, and perceived stress.</p> <p>These findings suggest that MBIs may be an appropriate intervention for students who are waiting for counselling services for depression, anxiety, and stress. There is insufficient evidence at this time to evaluate the effectiveness of MBIs in students presenting to health and counselling services for sleep difficulties, substance use problems, or emotion dysregulation or to make recommendations on mindfulness compared to other psychotherapeutic interventions in reducing common mental health concerns among students</p>
<p>Lindsay et al. 2016 A systematic review of mentorship programs to facilitate transition to post-secondary</p>	<p>Systematic review and narrative synthesis</p>	<p><u>Objectives</u> To identify the effective components of mentorship programmes in facilitating</p>	<p>For seven mentorship interventions, at least one significant improvement was reported in school- or work-</p>

<p>education and employment for youth and young adults with disabilities https://pubmed.ncbi.nlm.nih.gov/26497325/</p> <p>Retrieved from SCOPUS</p>	<p>22 studies investigated several types of intervention including: School-based, community-based, work-based, family employment awareness training, online, multi-component, and other mentorship interventions</p> <p><u>Population</u> Youth and young adults with learning disabilities</p>	<p>the transition to post-secondary education (PSE) or employment for youth and young adults with disabilities, and describe participants' experiences</p> <p><u>Outcome</u> Self-determination Empowerment Self-efficacy Self-confidence Self-advocacy</p> <p><u>Quality appraisal rating</u> Critically low Focused on a sub set of studies that showed positive outcomes</p>	<p>related outcome (self-determination (large effect), empowerment (medium effect), self-efficacy (large effect), or self-confidence or self-advocacy)</p> <p>Facilitators to implementing mentorship programs for youth with disabilities.</p> <ul style="list-style-type: none"> • Having routine contact either online or face-to-face • Structured with trained mentors as well as paid staff • Delivered in group-based or mixed formats, and longer in duration (46 months) • Mentors acted as role models, offered advice, and provided mentees with social and emotional support
<p>Lindsay et al. 2019 A systematic review of post-secondary transition interventions for youth with disabilities https://pubmed.ncbi.nlm.nih.gov/29726294/</p> <p>Retrieved from SCOPUS</p>	<p>Systematic review and narrative synthesis</p> <p>18 studies investigated several types of intervention including: Curriculum-based programmes, online programmes, immersive college residential programmes, mentoring programmes, simulations, self-directed programmes, technology-based programmes, and multi-component programmes</p> <p><u>Population</u> Youth and young adults with learning disabilities</p>	<p><u>Objectives</u> To understand the best practices and components of post-secondary transition programmes for youth with disabilities</p> <p><u>Outcomes</u> College enrolment, self-determination, self-confidence, social and vocational self-efficacy, autonomy, social support, career exploration, and transition skills</p> <p><u>Quality appraisal rating</u> Critically low Reported that studies were positive for at least one positive outcome and ignored the other outcomes</p>	<p>Although the outcomes of the post-secondary transition programmes varied across the studies, all of them reported an improvement in at least one of the following: college enrolment, self-determination, self-confidence, social and vocational self-efficacy, autonomy, social support, career exploration, and transition skills</p>
<p>Renbarger and Long 2019 Interventions for postsecondary success for low-income and high-potential students https://journals.sagepub.com/doi/10.1177/1932202X19828744</p> <p>Retrieved from: SCOPUS</p>	<p>Systematic review Thematic analysis used to synthesise findings narratively. No formal quality appraisal but included studies had to be published in peer-reviewed journals</p>	<p><u>Objectives</u></p> <ul style="list-style-type: none"> • What are the interventions that support low-income, gifted students' college success? • What are the outcomes associated with these interventions? 	<p>Findings mixed, with evidence of Native American and African American students benefiting less than White students</p> <p>Summer intervention (1 study): Summer program for gifted and talented students. Project Promise serves</p>

	<p>Sixteen studies of programmes that served a gifted population in the USA, and that evaluated an intervention related to college access were included</p> <p>Types of intervention were: a summer intervention, advanced coursework, financial aid, college information, and year-round support</p> <p><u>Population</u> Low-income and high-potential postsecondary students</p>	<p><u>Outcomes</u> Accessing college, persisting and attaining degrees Non cognitive support</p> <p><u>Quality appraisal rating</u> Critically low</p>	<p>students from fourth grade to 12th grade for up to 3 weeks on a local college campus. Findings reported were high rates of college enrolment, students felt better prepared and reported better peer, mentor and parental support</p> <p>Advanced coursework (5 Studies): Early access to college work (Advanced Placement [AP]/ International Baccalaureate [IB] and dual credit), Findings were mixed depending on the type of course but did not consistently improve either the student experience or students' success</p> <p>College information (1 study): This intervention included information about applying to colleges, calculating the cost of colleges, and utilizing fee waivers Findings showed that students submitted more college applications to more selective institutions</p> <p>Financial aid (4 studies): These programs gave aid to students but seemed to provide little other support to low-income students Findings showed improved choice and access to college but did not always improve success</p> <p>Year-round support (1 study): A particular group of articles analysed the GMS program. The GMS program is a grant program that provides college tuition for up to 10 years for qualifying members. Findings showed that all students worked better at high school, 90% pursued</p>
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			higher education, benefited from peer support and personal development.
<p>Schmidt and Park 2021 Non-academic interventions for postsecondary enrolment and success in rural high-poverty schools: A systematic evidence review https://ies.ed.gov/ncee/edlabs/regions/appalachia/resources/pdfs/Nonacademic-interventions-for-postsecondary-enrollment-and-success_acc.pdf</p> <p>Retrieved from ERIC</p>	<p>Systematic review and narrative synthesis</p> <p>17 Studies (across nine interventions)</p> <ul style="list-style-type: none"> • Free application for Federal Student Aid (FAFSA) • Facilitating Long-term Improvements in Graduation and Higher Education for Tomorrow (FLIGHT) • College Counselling interventions • Summer Counselling interventions • Summer Bridge interventions <p><u>Population</u> 5 to 19 years from rural and high poverty populations</p>	<p><u>Objectives</u></p> <ul style="list-style-type: none"> • What is the evidence for positive effects of non-academic interventions on student post-secondary enrolment, academic performance and completion? • What is the evidence for positive effects of non-academic interventions on student post-secondary outcomes for rural and high-poverty populations? • What additional research is needed to address the evidence gap <p><u>Outcomes</u> Student post-secondary enrolment, academic performance and completion</p> <p><u>Quality appraisal rating</u> Critically low Only reported on sub set of studies that showed positive outcomes</p>	<p>Eight (five interventions) of the 17 studies found statistically significant positive effects of non-academic interventions on postsecondary outcomes. Only reported on these eight</p> <p>FAFSA interventions provide students and families with information on the importance of completing the FAFSA to obtain college aid, send reminders on key financial aid deadlines, and may assist low-income families in completing the application. Two studies demonstrated positive effects on post-secondary enrolment and persistence. p. 10</p> <p>FLIGHT is a school-based program that provides mentoring and other supports to middle and high school students to improve their chances of enrolling and succeeding in college. p.11</p> <p>College Counselling interventions provide high school seniors with mentoring and assistance with completing college applications. p. 11</p> <p>Summer counselling broadly refers to programs aimed at ensuring that high school graduates successfully matriculate in college in the fall after high school graduation. p. 11</p> <p>Summer Bridge interventions bridge programs aim to support students' postsecondary transition by connecting students to social resources that can help them succeed in college. p. 12</p> <p>FLIGHT, college counselling, summer counselling, and summer bridge programs showed positive effects on</p>

			<p>lone outcome each: Post-secondary enrolment for FLIGHT and College Counselling, persistence for Summer Counselling, and completion for Summer Bridge programmes)</p> <p>The extent of FAFSA interventions on post-secondary enrolment was medium to large; the extent of evidence for each of the other findings was small</p>
<p>Valentine et al. 2009 Systematic reviews of research: postsecondary transitions. identifying effective models and practices https://files.eric.ed.gov/fulltext/ED507727.pdf Retrieved from ERIC</p>	<p>Systematic review and meta-analysis</p> <p>The search strategy aimed to find studies regarding transition programs designed to help disadvantaged youth move into and through to post-secondary education:</p> <ul style="list-style-type: none"> - High school to community college or technical college - High school to 4-year college/university - Completion of community or technical college - Completion of 4-year college/university - Pre-college education to community technical college - High school to related employment - College/university to related employment - Community or technical college to 4-year college/university <p>19 studies which involved interventions designed to keep students in college once they got there and 18 were included in meta-analysis</p> <p>Population</p>	<p><u>Objectives</u></p> <ul style="list-style-type: none"> • What models or programmes of transition exist? • How is successful transition defined? • How are transition models and programmes evaluated? • What is the impact of transition programmes, specifically those that aim to facilitate transition from one educational system to another, to programme completion, or to specific, career-related employment for disadvantaged youth? <p><u>Outcomes</u> Short term grades and persistence</p> <p><u>Quality appraisal rating</u> Critically low</p>	<p>Definition Transition defined as individual movement from pre-college educational systems into and through the first two years of postsecondary education or into related employment</p> <p>Due to poor reporting of the primary studies, the authors were unable to assess studies on most quality dimensions and it was not possible to determine how or why programs might be effective</p> <p>Interventions ranged from relatively comprehensive interventions (e.g., a seminar designed to facilitate college adjustment, coupled with limitations on the number of credit hours students could enrol in, smaller classes, and tutoring) to those that were much smaller in scale, such as adding a journaling component to an English composition class. Most interventions fell between these two poles, with a freshman orientation/adjustment seminar being the strategy most often adopted (either alone or in conjunction with other activities such as tutoring)</p> <p>The data did suggest that comprehensive interventions might affect short term grades and persistence but</p>

	All studies included students who were either at increased risk for college failure (e.g., were identified as high-risk admits) or were on academic probation		there was little information as to which elements in the comprehensive interventions might be more effective
Spours et al. 2021 Mitigating impacts of the COVID19 pandemic on the further education sector: a rapid evidence review. UCL Social Research Institute http://eppi.ioe.ac.uk/cms/Portals/0/Lot%204%20-%20FE%20-%20090921_LO.pdf?ver=2021-09-09-114634-593 Stakeholders	Rapid review <u>Population</u> Further education sector: UK Students and Staff <i>“Evidence from systematic reviews has been limited but with significant mitigation messages- given the specificities of the FE Sector in the UK and the novelty of the crisis evidence from systematic reviews has not been able to cast light on COVID harms but has provided possible transferable mitigations focused on targeted investment in vulnerable groups; joined-up and collaborative interventions leading to personalised support packages.”</i> p.43 <i>“A novel crisis in an under-researched sector - the density of grey literature and the paucity of peer-reviewed studies- the vast majority of the extant evidence underpinning COVID-related research in the FE Sector comes from ‘grey literature’ (e.g. non-peer reviewed surveys, sector-based statistics; research by sector representative organisations; perceptions of key actors and policy proposals of an array of civil society organisations)”</i> p. 43	<u>Objectives:</u> Harms What is the nature and extent of the UK FE Sector experience of harms reported in research on impacts of COVID 19? Sub questions: - What short-term harms have been reported by those involved in the Sector? To what degree are the reported harms evidence-based or perception-based? - In what ways do the specific features of the Sector inform particular harms (e.g. in relation to its social composition, transitions to work; assessment and qualification and transitions to higher study)? - <i>What relationship can be found between direct/indirect and short/long-term harms (e.g., connections between pre-existing social/educational divisions and new divisions)?</i> <u>Objectives:</u> Mitigations <i>What systematic review evidence is there to mitigate these UK experienced harms in the research literature and those identified by those involved in the Sector?</i> Sub questions - What counter measures are being reported by those involved in the Sector in relation to short-term harms and long-term harms?	Themes identified: Theme 1. Vocational disruption for young people, economic participation, and apprenticeships. Theme 2. The mental health and wellbeing of young people. Theme 3. Changes to modes of learning, assessment, and qualifications. Theme 4. Inequalities disadvantaged young people, and NEETs. Theme 5. Problematical transitions and access to higher education and post-16 systems. Theme 6. A responsive but ‘stressed’ FE Sector. Theme 2: Harms: Based off surveys of individuals and surveys of institutions which have not been peer reviewed. The mental health and wellbeing of young people has suffered with particular concerns about personal futures: job opportunities, nature of society/economy during recovery. p. 19-21 Mitigations: Link to AoC and SCFA reports pulling out their recommendations. p.33 Theme 3: Harms: Based on evidence from case studies and more college-based research is required. Little is known about the impact of remote learning on class gaps. The presumption is that these will deepen, but issues of learner

	<p><i>“The challenge with grey literatures is the degree of trustworthiness. Here the picture is uneven. The findings concerning vocational disruption are firmly rooted in national and sector-based statistics whereas findings regarding mental health and wellbeing are based on surveys by sector organisations or the perceptions of sector leaders and young people. These are not to be discounted (concerns about the mental wellbeing of young people come from a variety of sources), but there may be methodological shortcomings of these kind of sources that have to be taken into consideration when assessing the strength and reliability of the evidence”.p.43</i></p>	<p>- How far can these measures be classified as emergent or established by research evidence?</p> <p><u>Quality appraisal rating</u> 6-items all answered Yes</p> <p>“</p>	<p>engagement require more research. p.21-22</p> <p>Mitigations: Evidence from one systematic review suggested improved training, collaborative learning & more blended learning are required to support catch-up. The degree to which losses/disruption to vocational learning are remedied will depend on the scale of the economic recovery.</p> <p>Theme 4: Harms: Evidence from systematic reviews and primary research suggests that disrupted/losses to learning have magnified class gaps and this is supported by a broadly held perception in the sector. p.23-25</p> <p>Mitigations: There were no systematic review evidence on mitigating the increased educational inequalities directly relevant to the FE Sector</p>
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Key: ADHD: Attention hyper deficit disorder; AoC: Association of Colleges; FE: further education; SFCA: Sixth Form College Association; MBI: mindfulness-based interventions; MBSR: mindfulness-based stress reduction; MBCT: mindfulness-based cognitive therapy

Summary table of characteristics of systematic reviews and rapid reviews (retrieved from update search June 2022)

Citation Citation retrieval source	Review type and methodology	Objective Outcomes Quality appraisal rating	Key features of interventions Findings
Post 16 education pre COVID			
<p>Nickow et al 2020 The impressive effects of tutoring on prek-12 learning: A systematic review and meta-analysis of the experimental evidence https://www.nber.org/papers/w27476</p> <p>Retrieved from back-chaining</p>	<p>Systematic review and meta-analysis</p> <p>96 RCTs included focusing on tutoring interventions, including literacy or math tutoring, or teacher, paraprofessional, nonprofessional (volunteer) and parent tutoring</p> <p><u>Population</u> Preschool to kindergarten (n=18) Grade 1 (n=46) Grade 2-5 (n=50) Grade 6-11 (n=7)</p> <p>Location of research across the different studies not reported</p>	<p><u>Objectives</u> To address two research questions: 1) What are the impacts of preK-12 tutoring interventions on learning outcomes? 2) How do effects vary by program characteristics and intervention context?</p> <p><u>Outcomes</u> Academic learning outcomes three months or less following tutoring</p> <p><u>Quality appraisal rating</u> Critically low</p>	<p>Definition: one-on-one or small-group human (i.e., non-computer) instruction aimed at supplementing classroom-based education.</p> <p>Tutoring interventions exert substantial effects (Hedge's g effect size 0.37 [0.30, 0.43]) on learning across a wide range of program characteristics</p> <p>Teacher tutoring programs yield the largest impacts, followed by paraprofessional tutoring programs, with nonprofessional and parent tutoring accounting for the lower end of the impact distribution.</p> <p>The pooled effect size for during-school tutoring programs is nearly twice as large as that of after-school tutoring programs. During-school versus after-school variation occurs entirely within the subsample of paraprofessional and nonprofessional tutoring programs, since there were no after-school teacher tutoring programs and only one during-school parent tutoring program in our sample.</p> <p>At least up until middle school, effect sizes roughly decline with grade level. There have not been enough studies that meet eligibility criteria to support reliable estimates for parent tutoring, or tutoring in sixth grade through high school across subcategories, or even to calculate a</p>

			<p>reliable standard error for the sixth grade and up pooled estimate. The pattern of declining across the grade level categories are explained entirely by literacy programs. Math programs, if anything, show a reverse trend, with increasing impacts from PreK-kindergarten to first grade to grades 2 through 5.</p> <p>Cook et al. (2015) report on the only major high school tutoring intervention included in our meta-analysis in an evaluation with a sample of over 2,700 male students in grades 9-10 across 12 Chicago public high schools during the 2013-2014 school year. The program generated effect sizes of 0.19 to 0.31 SD on standardized math test scores.</p>
Post 16 education post COVID			
<p>Shi et al 2022 Exploring equity in educational policies and interventions in primary and secondary education in the context of public health emergencies: A systematic literature review https://doi.org/10.1016/j.ijer.2021.101911</p> <p>Retrieved from author</p>	<p>Systematic review</p> <p>52 studies were included out of 13 types of educational policies and interventions were discussed, including distance learning (n=27), home learning/schooling (n=18), and food programme (n=4). Other educational policies and interventions included radio, call-in session, teacher training, parent engagement, online resources, school community's response, micro strategy management, education policy, TV programme and enquiry-based stress reduction intervention</p> <p><u>Population</u> Primary and secondary education</p>	<p><u>Objectives</u> To conduct a global evidence review on how educational policies and interventions affect and address inequalities in primary and secondary education in the context of PHEs</p> <p><u>Outcomes</u> Inequalities or evidence of equity Psychological and socio-emotional wellbeing Learning outcomes</p> <p><u>Quality appraisal rating</u> Critically low</p>	<p><i>Psychological and socio-emotional wellbeing</i></p> <p>Eight (out of 10) studies found that teaching provision such as distance learning and home-schooling during school disruption can contribute to the increase in students' emotional difficulties including girls who were from rural areas and those with special needs, disabilities, mental health conditions and low achievement.</p> <p>Schools provided inadequate support for students' mental wellbeing during PHEs.</p> <p>Studies focusing on personalised learning with support from key workers, and gender-responsive programmes in some low-income countries can address children's social</p>

	<p>The majority of the interventions (n=47) targeted at students or young people. The impact of educational policies and interventions in responding to PHEs on students from low-income families or those with disadvantaged socioeconomic background were most commonly reported in the included studies.</p>		<p>and emotional needs, and improve academic and life skills.</p> <p><i>Learning outcomes</i> <u>Time spent on learning</u> 11 (out of 24) studies found that students spent less time on home-schooling if they were from more disadvantaged groups, such as students with low SES and achievement levels.</p> <p>Parents and children spent significantly more time on learning activities when their schools provided varying educational inputs, especially live contact time with teachers.</p> <p><u>Academic performance</u> Students with low SES tended to decline their academic performance, including reading behaviour, during online learning.</p> <p>Mixed evidence was available on the impact of home-schooling on the performance of students with special needs and disabilities.</p> <p>Several studies reported that students experienced various degrees of difficulty with remote learning, including older adolescents, children and young people living in rural areas, and migrant children.</p>
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Key: PHEs: Public Health Emergencies; preK-12: from preschool and kindergarten to grade 12; RCTs: randomised controlled trials

Summary table of characteristics of systematic reviews produced by educational organisations (retrieved from initial search August 2021)

Citation	Review type and methodology	Objective	Key features of interventions Findings
<p>Citation retrieval source</p> <p>Education Endowment Foundation 2021a One to one tuition (Teaching and Learning Toolkit) https://educationendowmentfoundation.org.uk/education-evidence/teaching-learning-toolkit/one-to-one-tuition</p> <p>Retrieved from organisational web site (Report for the Education Endowment foundation)</p>	<p>Population</p> <p>Systematic review and meta-analysis</p> <p><u>Population</u> The EEF Teaching and Learning Toolkit comprises a series of accessible summaries of international evidence on teaching 3 to 18 year olds, including the cost, evidence strength, and impact of interventions, in this case, one-to-one tuition</p>	<p>Outcomes</p> <p><u>Objectives</u> Provides evidence on the cost, evidence strength and impact of one-to-one tuition, and guidance on what to consider before implementation</p> <p><u>Outcomes</u> Additional months progress in learning</p> <p><u>Quality appraisal rating</u> Critically low</p>	<p>Definition: a teacher, teaching assistant or other adult giving a pupil intensive tuition on a one-to-one basis</p> <p>High impact for moderate cost based on moderate evidence</p> <ul style="list-style-type: none"> • One-to-one tuition is very effective at improving pupil outcomes, delivering approximately 4 months' additional progress in secondary schools. • It might be an effective strategy for providing targeted support to pupils with low prior attainment or struggling in particular areas • Short, regular sessions (about 30 minutes 3-5 times a week) appear to result in optimum impact • Tuition is more likely to make an impact if it is additional to, but explicitly linked with, normal lessons • One to one tuition can be expensive, particularly when delivered by teachers. Approaches that use teaching assistants or in small groups rather than one to one have smaller positive effect on average, but may be a cost-effective option • For one-to-one tuition led by teaching assistants, interventions are likely to be more beneficial when teaching assistants, are experienced, well-trained and supported – e.g. delivering a structured intervention

			<p>Studies in England have shown that pupils eligible for free school meals typically receive additional benefits from one to one tuition. Low attaining pupils are particularly likely to benefit.</p> <ul style="list-style-type: none"> • The average cost is moderate; lower for online delivery (15 hours for £167-£180 per pupil via the National Tutoring Programme year 1 (2020-2021)); higher for in-person tuition and qualified or specialist teachers
<p>Education Endowment Foundation 2021b Small group tuition (Teaching and Learning Toolkit) https://educationendowmentfoundation.org.uk/education-evidence/teaching-learning-toolkit/small-group-tuition</p> <p>Retrieved from organisational web site (Report for the Education Endowment foundation)</p>	<p>Systematic review and meta-analysis</p> <p><u>Population</u> The EEF Teaching and Learning Toolkit comprises a series of accessible summaries of international evidence on teaching 3-18 year olds, including the cost, evidence strength, and impact of interventions, in this case, small group tuition</p>	<p><u>Objective</u> Provides evidence on the cost, evidence strength and impact of small group tuition, and guidance on what to consider before implementation.</p> <p><u>Outcomes</u> Additional months progress in learning</p> <p><u>Quality appraisal rating</u> Critically low</p>	<p>Definition: one teacher or professional educator working with 2-5 pupils together, usually in a separate working area. Intensive tuition in small groups is often provided to support lower attaining learners or those who are falling behind, but it can also be used as a more general strategy to ensure effective progress, or to teach challenging topics or skills</p> <p>Moderate impact for low cost based on moderate evidence</p> <ul style="list-style-type: none"> • Small group tuition has an impact of 2 months' additional progress over the course of a year in secondary schools • It is more likely to be effective if targeted at pupils' specific needs, identified by diagnostic assessment • The cost-effectiveness of teaching in small groups (compared with one-to-one tuition) indicates that greater use of this approach may be worthwhile • Providing training to the staff that deliver small group tuition is likely to increase impact • Additional small group support can be effectively targeted at pupils from

			<p>disadvantaged backgrounds as part of a school's pupil premium strategy</p> <p>Studies in England have shown that pupils eligible for free school meals typically receive additional benefits from small group tuition</p> <ul style="list-style-type: none"> • Impact is linked to group size (the smaller, the better), more feedback from the teacher, more sustained engagement in smaller groups, or work which is more closely matched to learners' needs
<p>Education Endowment Foundation 2021c Peer tutoring (Teaching and Learning Toolkit) https://educationendowmentfoundation.org.uk/education-evidence/teaching-learning-toolkit/peer-tutoring</p> <p>Retrieved from organisational web site (Report for the Education Endowment foundation)</p>	<p>Systematic review and meta-analysis</p> <p><u>Population</u> The EEF Teaching and Learning Toolkit comprises a series of accessible summaries of international evidence on teaching 3-18 year olds, including the cost, evidence strength, and impact of interventions, in this case, peer tutoring</p>	<p><u>Objective</u> Provides evidence on the cost, evidence strength and impact of peer tutoring, and guidance on what to consider before implementation</p> <p><u>Outcomes</u> Additional months progress in learning</p> <p><u>Quality appraisal rating</u> Critically low</p>	<p>Definition: Includes a range of approaches in which learners work in pairs or small groups to provide each other with explicit teaching support, such as: cross-age tutoring, in which an older learner takes the tutoring role and is paired with a younger tutee or tutees; peer assisted learning, which is a structured approach for mathematics and reading with sessions; and reciprocal peer tutoring, in which learners alternate between the role of tutor and tutee. Peer assessment can take different forms, such as reinforcing learning or correcting misunderstandings</p> <p>High impact for very low cost based on extensive evidence</p> <ul style="list-style-type: none"> • Peer tutoring approaches appear to have an average positive effect equivalent to approximately five additional months' progress. • It has an impact on both tutors and tutees and may be a cost-effective approach to delivering one-to-one or small group tuition • It seems to be most effective when used to review or consolidate learning, rather than introducing new material

			<ul style="list-style-type: none"> • Training for staff and tutors is essential for success. It is crucial to allocate sufficient time to train both staff and tutors, to ensure training provides structure to the tutoring, and to identify and implement improvements as the programme progresses • Four to ten week intensive blocks with regular sessions (4-5 times a week) appear to provide maximum impact • All types of pupil appear to benefit but there is some evidence that pupils who are low-attaining and those with special educational needs make the biggest gains • It appears to be particularly effective when there is support to ensure the quality of peer interaction is high. An age gap of less than 3 years between tutor and tutee is optimal, and the work must be challenging to the tutee whilst easy enough for the tutor to provide support. • Successful approaches may also support the social and personal development of pupils and boost their self-confidence and motivation for learning • The average cost is expected to be very low
<p>Education Endowment Foundation 2021d Mentoring (Teaching and Learning Toolkit) https://educationendowmentfoundation.org.uk/education-evidence/teaching-learning-toolkit/mentoring</p> <p>Retrieved from organisational web site (Report for the Education Endowment foundation)</p>	<p>Systematic review and meta-analysis</p> <p><u>Population</u> The EEF Teaching and Learning Toolkit comprises a series of accessible summaries of international evidence on teaching 3-18 year olds, including the cost, evidence strength, and impact of</p>	<p><u>Objective</u> Provides evidence on the cost, evidence strength and impact of mentoring, and guidance on what to consider before implementation</p> <p><u>Outcomes</u> Additional months progress in learning</p> <p><u>Quality appraisal rating</u> Critically low</p>	<p>Definition: Mentoring involves pairing young people with an older peer or volunteer, who acts as a positive role model, often to young people who are deemed to be hard to reach or at risk of educational failure or exclusion. In general, mentoring aims to build confidence, develop resilience and character, or raise aspirations, rather than to develop specific academic skills or knowledge. Mentors typically build</p>

	<p>interventions, in this case, mentoring</p>		<p>relationships with young people by meeting with them one to one for about an hour a week over a sustained period</p> <p>Low impact for moderate cost based on moderate evidence</p> <p>The impact of mentoring varies but, on average, it is likely to have a small positive impact on attainment. Some studies have found more positive impacts for students from disadvantaged backgrounds, and for non-academic outcomes such as attitudes to school, attendance and behaviour</p> <ul style="list-style-type: none"> • Positive effects on attainment tend not to be sustained once the mentoring stops. It is important to consider how pupils who have benefitted can be supported to retain positive changes in their confidence and behaviour • Both community-based and school-based approaches can be successful • Mentor drop-out can have a detrimental effect on mentees. It is important to consider how to support mentors • There are risks associated with unsuccessful mentor pairings, which may have a detrimental effect on the mentee, and some studies report negative overall impacts • Programmes which have a clear structure and expectations, provide training and support for mentors, and recruit mentors who are volunteers, are associated with more successful outcomes • There is no evidence that approaches with a single focus on improving academic attainment are more effective;
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			<p>programmes with multiple objectives can be equally or more effective</p> <ul style="list-style-type: none"> • The average cost is moderate, and largely based on mentor training, salary costs (for non-volunteer mentors) and resources. Continuous training and support increases costs. A moderate and sustained amount of staff time is also required
<p>Education Endowment Foundation 2021e Summer schools (Teaching and Learning Toolkit) https://educationendowmentfoundation.org.uk/education-evidence/teaching-learning-toolkit/summer-schools</p> <p>Retrieved from organisational web site (Report for the Education Endowment foundation)</p>	<p>Systematic review and meta-analysis</p> <p><u>Population</u> The EEF Teaching and Learning Toolkit comprises a series of accessible summaries of international evidence on teaching 3-19 year olds, including the cost, evidence strength, and impact of interventions, in this case, Summer schools</p>	<p><u>Objective</u> Provides evidence on the cost, evidence strength and impact of Summer schools, and guidance on what to consider before implementation</p> <p><u>Outcomes</u> Additional months progress in learning</p> <p><u>Quality appraisal rating</u> Critically low</p>	<p>Definition: Summer schools are lessons or classes during the summer holidays. They are often designed as catch-up programmes, although some concentrate on sports or other non-academic activities, or have a specific aim, such as supporting pupils at the transition from primary to secondary school or preparing high-attaining pupils for university</p> <p>Moderate impact for moderate cost based on limited evidence</p> <ul style="list-style-type: none"> • Summer schools have a positive impact on average (3 months' additional progress) but are expensive to implement. • Provision that aims to improve learning must have an academic component. Summer schools that include an intensive teaching component such as using a small group or one-to-one approach have higher impacts on average • Maintaining regular attendance can be challenging, particularly for disadvantaged students. It is crucial to consider how to attract and engage students to prevent attainment gaps widening • Summer schools can also provide additional experiences and activities such as arts or sports. Such activities

			<p>may be valuable in themselves or be used to increase engagement</p> <ul style="list-style-type: none"> • Greater impact can be achieved when summer schools are intensive, well-resourced, and involve small group or one-to-one teaching by trained and experienced teachers, preferably who are known to the pupils • There is some evidence that pupils from disadvantaged backgrounds can benefit from summer schools, where activities are focused on well-resourced, small group or one to one academic approaches • The average cost is moderate, and largely based on staff salary, facilities, resources and activity costs
<p>Education Endowment Foundation 2021f Extending school time (Teaching and Learning Toolkit) https://educationendowmentfoundation.org.uk/education-evidence/teaching-learning-toolkit/extending-school-time</p> <p>Retrieved from organisational web site (Report for the Education Endowment foundation)</p>	<p>Systematic review and meta-analysis</p> <p><u>Population</u> The EEF Teaching and Learning Toolkit comprises a series of accessible summaries of international evidence on teaching 3-18 year olds, including the cost, evidence strength, and impact of interventions, in this case, extending school time.</p>	<p>Provides evidence on the cost, evidence strength and impact of extending school time, and guidance on what to consider before implementation</p> <p><u>Outcomes</u> Additional months progress in learning</p> <p><u>Quality appraisal rating</u> Critically low</p>	<p>Definition: 3 main approaches are 1) extending the school day, 2) extending the school year, and 3) providing extra time for targeted groups, particularly disadvantaged or low-attaining pupils, either before or after school.</p> <p>Moderate impact for moderate cost based on limited evidence</p> <ul style="list-style-type: none"> • Programmes that extend school time have a positive impact (2 months additional progress over a year for secondary schools) but are expensive and may not be cost-effective to implement. Schools will also need to consider the workload and wellbeing of staff • Extra time should meet pupils' needs and build on their capabilities. It is important to monitor attendance to ensure that pupils who need additional support can benefit

			<ul style="list-style-type: none"> • Before and after school programmes with a clear structure, a strong link to the curriculum, and well-qualified and well-trained staff are more clearly linked to academic benefits than other types of extended hours provision • Additional time may be more effective if used for one-to-one support • Enrichment activities without a specific focus on learning can have an impact on attainment, but the effects tend to be lower and the impact of different interventions can vary a great deal • Overall costs are estimated a moderate. Extending the school year by 2 weeks would cost about £250 per pupil per year for secondary schools; after-school clubs cost on average £7 per session per pupil
<p>Education Endowment Foundation 2021g Metacognition and self-regulation (Teaching and Learning Toolkit) https://educationendowmentfoundation.org.uk/education-evidence/teaching-learning-toolkit/metacognition-and-self-regulation</p> <p>Retrieved from organisational web site (Report for the Education Endowment foundation)</p>	<p>Systematic review and meta-analysis</p> <p><u>Population</u> The EEF Teaching and Learning Toolkit comprises a series of accessible summaries of international evidence on teaching 3-19 year olds, including the cost, evidence strength, and impact of interventions, in this case, Metacognition and self-regulation</p>	<p>Provides evidence on the cost, evidence strength and impact of extending school time, and guidance on what to consider before implementation</p> <p><u>Outcomes</u> Additional months progress in learning</p> <p><u>Quality appraisal rating</u> Critically low</p>	<p>Definition: metacognition and self-regulation approaches support pupils to think about their own learning more explicitly, often by teaching them specific strategies for planning, monitoring and evaluating their learning. Interventions give students a repertoire of strategies to choose from and the skills to choose the most suitable strategy for a given learning task</p> <p>Very high impact for very low cost based on extensive evidence</p> <ul style="list-style-type: none"> • The potential impact of metacognition and self-regulation approaches is high (7 months additional progress in secondary schools), although it can be difficult to realise this impact in practice as students are required to take responsibility for their learning and develop an understanding of what is required to succeed

			<ul style="list-style-type: none"> • Explicitly teaching strategies to help plan, monitor and evaluate learning can be effective, particularly when they are applied to challenging tasks rooted in the usual curriculum content • Teachers can demonstrate effective strategies by modelling their own thought processes. e.g., a teacher might explain their thinking when interpreting a text or solving a mathematical task, alongside promoting and developing metacognitive talk related to lesson objectives • Professional development can be used to develop a mental model of metacognition and self-regulation, alongside an understanding of teaching metacognitive strategies • Metacognitive and self-regulation strategies can be effective when taught in collaborative groups so that learners can support each other and make their thinking explicit through discussion • Costs are estimated to be very low, and mostly arise from professional development training for staff
<p>Maughan et al. 2016 Improving Level 2 English and maths outcomes for 16-18 year olds: Literature review https://educationendowmentfoundation.org.uk/public/files/Presentations/Publications/16-18_Literature_Review.pdf</p> <p>Retrieved from organisational web site (Report for the Education Endowment foundation)</p>	<p>Systematic review</p> <p><u>Population</u> 16 -18 years old students from disadvantaged backgrounds, who do not attain at least grade C GCSE in these subjects in year 11</p>	<p><u>Objectives</u> To assess the evidence on specific interventions, or key features of interventions, which may be effective in improving English and mathematics outcomes for students, who are disproportionately from disadvantaged backgrounds, who do not attain at least grade C GCSE in these subjects in year 11</p> <p><u>Outcomes</u> Educational attainment</p> <p><u>Quality appraisal rating</u></p>	<p>Mathematics interventions The mathematics articles were grouped into those that</p> <p>(a) were mathematics interventions within mathematics lessons b) those that were some type of support intervention (such as teacher selection or training) c) those that embedded mathematics into vocational studies in some way d) those that involved interventions outside of the main teaching (tutoring interventions)</p> <p>Specific interventions in maths classrooms: "targeted increases in time</p>

		<p>Critically low due to poor reporting of methods</p>	<p>allocated to study can have a positive impact for borderline students, and that using realistic contexts and classroom discussion can lead to improvements in outcomes". p.4.</p> <p>Tutoring: "importance of high quality training for tutors" p.5</p> <p>Other important features of maths interventions included: an early diagnosis via testing; the use of relevant real-life or vocational contexts; technology and e-learning; having appropriately skilled teachers; targeted and sustained teaching. Personal relationships, building self-identity and developing student motivation were also likely to promote success</p> <p>English interventions The English interventions that were reviewed fell into a number of different categories: those that were taught in the English classroom, those that were taught across the curriculum, those that involved withdrawing students from core lessons, and writing interventions</p> <p>Specific interventions in English classrooms "professional development for teachers in the content areas is crucial, and sustained input for the students is generally required" p.3</p> <p>Writing interventions: "The intervention was more likely to benefit those in the sample who were already the more able writers" p.4</p> <p>Other important features of interventions likely to have a positive impact on English were: peer-mediated support; support sustained over time; multiple strategies; specific teaching of literacy skills; within-class or cross-curricular</p>
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			approaches (not withdrawing students from mainstream lessons); focus on fluency, comprehension or vocabulary, or a combination.
<p>Sixth Form Colleges Association 2021 Supporting students' mental health after the lockdown https://sfcawebsite.s3.amazonaws.com/uploads/document/SFCA-Mental-health-in-colleges-evidence-review-Updated.pdf?t=1615373296</p> <p>Retrieved from organisational website</p>	<p>Rapid review with narrative synthesis</p> <p>Evidence (pre-COVID) relating to the intervention delivered in schools and colleges: therapy-based prevention programmes; mindfulness; counselling; physical activity interventions; improving sleep. Improving access to treatment: screening; increasing referrals to mental health treatment</p> <p><u>Population</u> Focused on the evidence for older teenagers and in sixth form colleges where possible. But where it is particularly relevant, or evidence is harder to come by, the review included studies looking at younger children and in secondary schools too</p>	<p><u>Objectives</u></p> <ul style="list-style-type: none"> • What have the impacts of Coronavirus been on young people's mental health? • What does the evidence say about school and college-based approaches to improving students' mental health? <p><u>Outcomes</u> Mental Health</p> <p><u>Quality appraisal rating</u> 6-items, 1 Yes, 1 Partial yes and 4 No</p>	<p>Evidence was mixed, but the weight of evidence suggested: College-aged young people's mental health has deteriorated as a result of the pandemic; school-based CBT (p. 14) and mindfulness programmes (p. 16) may reduce anxiety and depression, at least in the short term; counselling (p. 17), exercise (p. 19) and sleep interventions (p. 20) could improve mental health; the screening (p.40) of students for mental health needs, and the provision of effective referral pathways (p. 41) to clinical treatment could be helpful (though it is acknowledged that mental health services are severely over-stretched)</p>
<p>White 2017a Evidence summary: Reducing the attainment gap – the role of health and wellbeing interventions in schools. http://www.healthscotland.scot/media/1735/evidence-summary-reducing-the-attainment-gap-the-role-of-health-and-wellbeing-interventions-in-schools.pdf</p> <p>White 2017b Rapid Evidence Review: Reducing the attainment gap – the role of health and wellbeing interventions in schools.</p>	<p>Rapid review of programmes implemented in the UK and Ireland</p> <ul style="list-style-type: none"> • Mindfulness and social and emotional learning programmes • Diet and nutrition programmes (breakfast clubs, free school meals) • Physical activity • WHO Health Promoting Schools programmes <p><u>Population</u> General school population no further details provided</p>	<p><u>Objectives</u> To examine the effectiveness of health and wellbeing interventions in a school setting to potentially reduce inequalities in educational outcomes</p> <p><u>Outcomes</u> Cognitive outcomes and resilience and stress measures Wellbeing outcomes</p> <p><u>Quality appraisal rating</u> 6-items, 5 Yes, 1 No</p>	<p>The impact of mindfulness and social and emotional learning programmes on wellbeing were explored, the other interventions explored academic and behavioural outcomes (not extracted).</p> <p>Mindfulness-based interventions delivered in a school setting to children of a range of school ages showed significant effects for significant effects were found for cognitive outcomes and resilience and stress measures (p. 5)</p> <p>Mixed evidence that social and emotional learning programmes have</p>

<p>http://www.healthscotland.scot/media/1694/reducing-the-attainment-gap-the-role-of-health-and-wellbeing-interventions-in-schools.pdf</p> <p>Retrieved from back chaining</p>			<p>a positive impact on children’s wellbeing outcomes (p. 6)</p> <p>Programmes were found to be more likely to be effective if they followed four key principles. (p. 5)</p> <ul style="list-style-type: none"> • Sequenced – a connected and coordinated set of activities to achieve skill development objective. • Active – use of dynamic, varied forms of learning that are engaging and allow students to practise and learn new skills in real-world situations. • Focused – has at least one component devoted to developing personal or social skills. • Explicit – based on a theoretical model of social and emotional learning and targets specific social and emotional learning rather than positive development in general. <p>Few studies reported effects on young people from different socio-economic or ethnic backgrounds</p>
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Summary table of characteristics of systematic reviews produced by educational organisations (retrieved from update June 2022)

Citation	Review type and methodology	Objective	Key features of interventions
Citation retrieval source	Population	Outcomes	Findings
<p>Education Endowment Foundation 2021h Repeating a year (Teaching and Learning Toolkit) https://educationendowmentfoundation.org.uk/education-evidence/teaching-learning-toolkit/repeating-a-year#nav-how-effective-is-the-approach</p> <p>Retrieved from organisational web site (Report for the Education Endowment foundation)</p>	<p>Systematic review and meta-analysis</p> <p><u>Population</u> The EEF Teaching and Learning Toolkit comprises a series of accessible summaries of international evidence on teaching 3-19 year olds, including the cost, evidence strength, and impact of interventions, in this case, repeating a year</p>	<p>Provides evidence on the cost, evidence strength and impact of extending school time, and guidance on what to consider before implementation</p> <p><u>Outcomes</u> Additional months progress in learning</p> <p><u>Quality appraisal rating</u> Critically low</p>	<p>Definition: Repeating A Year (also known as “grade retention”, “non-promotion”, or “failing a grade”) describes the process by which pupils who do not reach a given standard of learning at the end of a year are required to join a class of younger students the following academic year. For students at secondary school level, repeating a year is usually limited to the particular subject or classes that a student has not passed. Repeating a year is very rare in the UK, but it is relatively common in the USA, and some European countries.</p> <p>Negative impact for very high cost based on limited evidence</p> <ul style="list-style-type: none"> • Requiring pupils to repeat a year has a negative impact on average. • Pupils who repeat a year make an average of three months’ less academic progress over the course of a year than pupils who move on. Negative effects are typically a little greater in secondary schools (-4 months) than primary(-2 months). • Negative effects are disproportionately greater for disadvantaged pupils, for pupils from ethnic minorities, and for pupils who are relatively young in their year group. • Negative effects tend to increase with time and repeating more than one year significantly increases the risk of students dropping out of school.

			<ul style="list-style-type: none"> • Although the overall average impact is negative, some studies suggest that in individual circumstances some students can benefit, particularly in the short term. However, it does not appear to be easy to identify which students will benefit, suggesting that repeating a year is a significant risk. • Where pupils are not achieving expected outcomes, alternative interventions might provide intensive support that may make repeating a school year unnecessary, e.g One to one tuition
<p>Page et al 2021a Learning loss, learning gains and wellbeing: a rapid evidence assessment https://www.educationdevelopmenttrust.com/EducationDevelopmentTrust/files/20/201258b4-98ab-415a-b0da-f33d5cf8688d.pdf</p> <p>Retrieved from organisational web site (Report for the Education Development Trust)</p>	<p>Rapid evidence assessment</p> <p>185 studies - 40 studies focus on programmes and policies implemented in response to a crisis, out of which 24 conducted in LMIC settings</p> <p>Including Directly related COVID-19 (n=15) Natural disaster contexts (n=12) Contexts of war, violence or other fragility (n=6)</p> <p><u>Population</u></p> <ul style="list-style-type: none"> • LMICs and SSA in particular (but this is more in relevance of application rather than strictly about source) • Previous crisis or COVID-19 • Studies with the focus on children aged 5-18, girls and boys <p>Primary and secondary and non-formal education environments</p>	<p><u>Objectives</u> What programmes and policies have been implemented in response to crises to recover learning? What does the literature tell us about their impact?</p> <p><u>Outcomes</u> Learning Wellbeing Life skills/21st century skills/socio-emotional skills</p> <p><u>Quality appraisal rating</u> 6 items, 4 Yes, 1 Partial yes , 1 No</p>	<p><i>Programmes and policies implemented in response to crises to recover learning</i></p> <p>High dosage tutoring The suggested approach is that students from disadvantaged backgrounds would receive regular short sessions in reading and maths. Evidence suggests that tuitions can increase student learning by an additional five months over one or two terms of schooling.</p> <p>Remediation activities</p> <ul style="list-style-type: none"> - Remediation combined with long term reorientation of the curriculum to align with children’s learning levels - Increasing instructional time (though extending the school day, lengthening the school year, or adding instructional time during the summer) - Various forms of small group instruction or tutoring - ‘Looping’ strategies whereby students are paired with the same teacher for multiple years. <p>Extended school days</p>

			<p>Mid- to longer-term, extended school days including before and after school provision as well as holiday clubs or camp provision are effective in improving outcomes</p> <p>Catch-up schemes Programmes such as Switch-on Reading (Reading Recovery) shows a positive impact on literacy</p> <p>Alternative pathway such as Accelerated Learning Programmes ALP is fast-track second-chance programme that provides opportunities to complete formal education, enabling out-of-school children and youth to catch up with other students. Analysis shows that ALP can do more than create educational opportunities for young persons; it can also help young people obtain a confident perspective for their future.</p> <p>Social support and mental wellbeing</p> <ul style="list-style-type: none"> - Promotion of positive school climate, in-school counselling and mental health services, online therapeutic courses and use of creative writing, activities aiming at sharing experiences, and other preventative measures such as disaster education are suggested. - For targeting interventions, systems are needed to track attendance, assignment completion, and grades. - Engaging parents using a range of approaches was a support schools relied on to reach students.
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Key: LMIC: low- and middle-income country; SSA: Sub Saharan Africa