

Making the most of digital approaches to mental health and wellbeing in schools

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Digital Mental Health in Schools

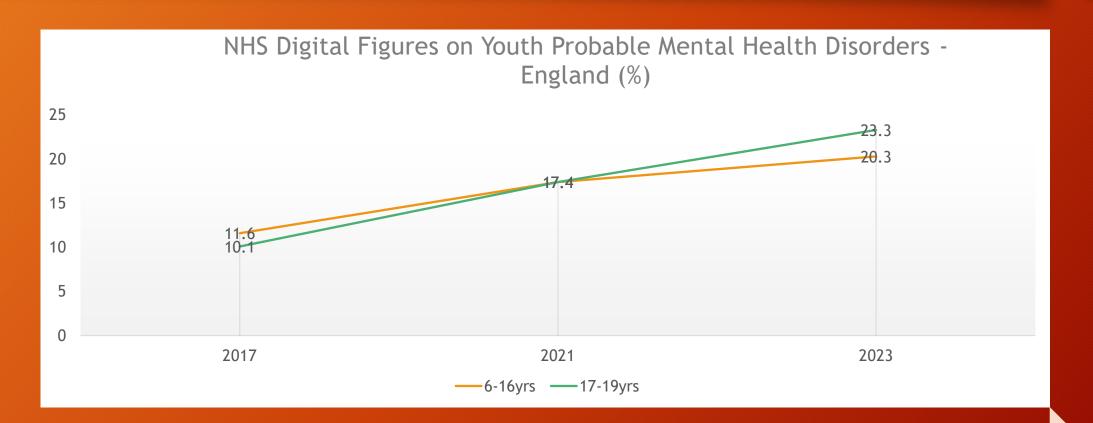


- 1. Mental Health of young people
- 2. Why schools might help
- 3. EdTech & digital mental health interventions
- 4. Two examples from RHUL
- 5. Barriers and facilitators to using digital mental health tools in schools

www.digitalhealthskills.com

Youth mental health problems are on the rise

NHS Digital 2023



E7%

1 in 9 1 in 5 8-25yrs

Young people with mental health problems are having a hard time in school...

5x more likely to have been bullied inperson or online

3x more likely to find extra-curriculars or socialising with friends unaffordable

Compared to peers without mental health problems

NHS Digital, 2023

What is a school?



What type of school did you attend?

How much did you enjoy learning?

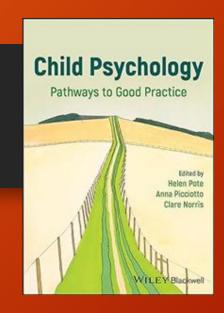
How much did you enjoy the social side of school?

How connected did you feel to the school as a community? What do remember about the school's provision for social, emotional and mental health needs?

HOW have these experiences shaped your views about the ways mental health support might be provided in school?



Can schools support mental health?

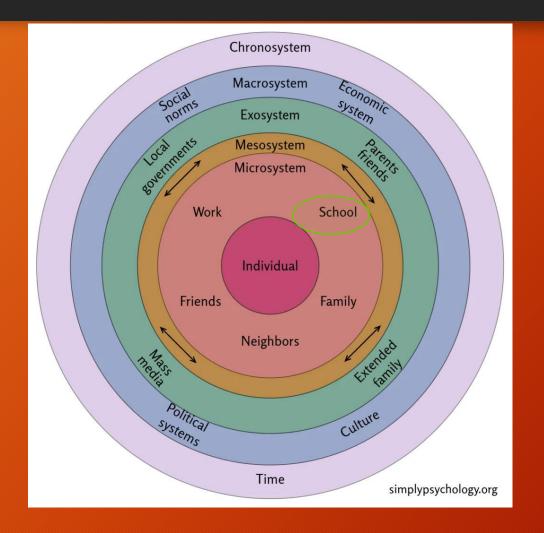


Schools are ...

"an immersive social experience as well as centres of learning, and can support the development of good social, emotional and mental health. Schools have the potential to offer a nurturing and protective environment for CYP in the most adverse circumstances"

Picciotto, Hickey & Barnet (2024)

Child Mental Health: Complex ecosystems of risk and protective factors



Bronfenbrenner's Ecological Systems Theory (1979)

Mental health & psychological interventions in schools

The NHS Long Term Plan

PhHSLong Term Plan

Www.long termplan

Www.long termplan.nns.uk

- A long history of various practitioners supporting mental health in schools
 - Teachers
 - Special educational needs co-ordinators
 - Counsellors
 - Educational Psychologists
 - Clinical Psychologists
 - Education Mental Health Practitioners
- Work spans the health and education systems
- The core task of any school learning and development may not always align with the mental health and wellbeing needs of the child





Promoting children and young people's mental health and wellbeing

A whole school or college approach

Mentally Health Schools - 8 Principles (2021)

an ethos and environment of respect, valuing diversity leadership and management champions promotion emotional health and wellbeing

staff development to support their pupils/own wellbeing curriculum teaching and learning to promote resilience and support social and emotional learning

enabling student voice to influence decisions

identifying the need for and monitoring the impact of interventions

targeted support and appropriate referral

working with parents and carers

What does mental health support in schools look like?

What is your image of how we should support young people with their mental health needs in schools?

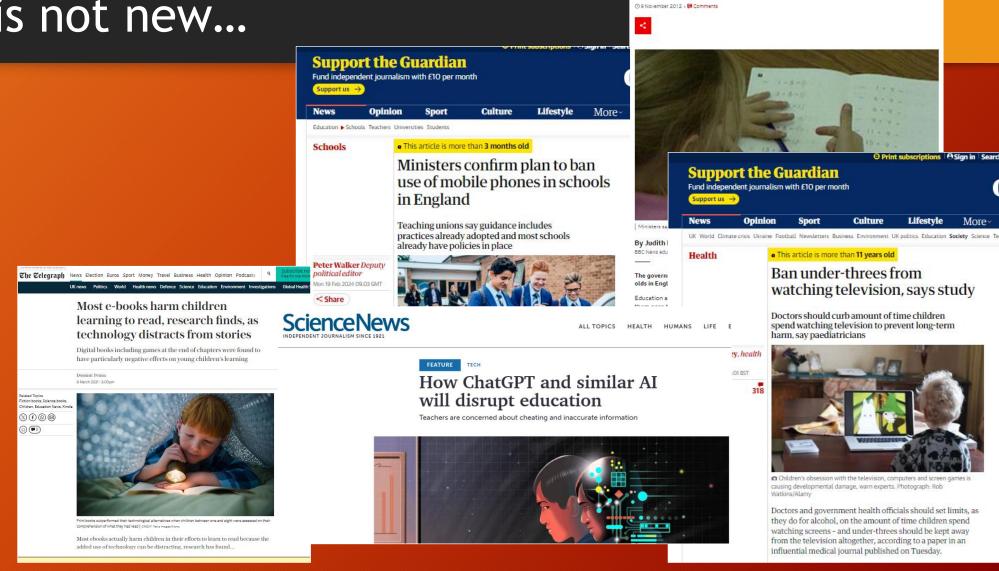
Does it involve in-person support from adult to child, peer to peer?

Does it involve digital support (an app, an online session, a computer game) as a supportive option for young people?

Why not?

Anxiety that technology is bad for kids is not new...

- Calculators
- TV
- Ebooks
- Computers
- Phones
- Al



B B C 🔘 For you

Family & Education | Young Reporter

primary maths tests

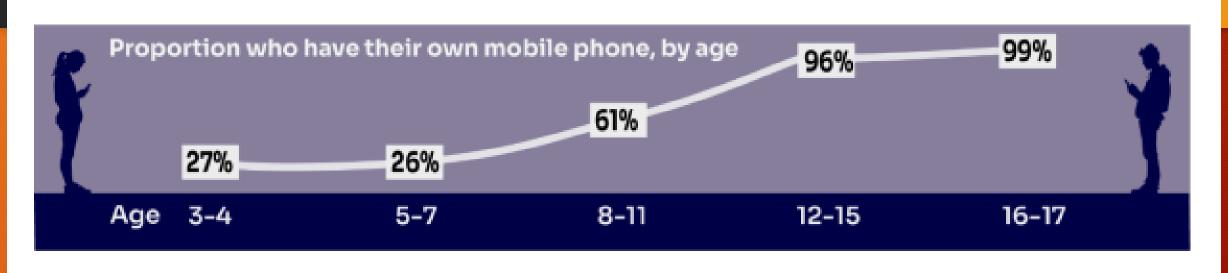
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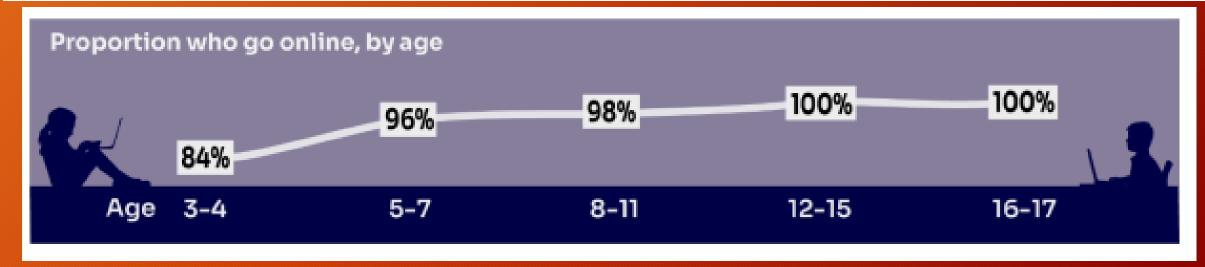
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Government bans calculators from

Youth Digital access - phones and online Ofcom 2024





Harnessing the power of digital for mental health in schools

- We cannot ignore it Digital influences are an important part of a child's ecosystem/culture
- It influences their developmental, educational and health outcomes
- Could be a more engaging way to improve mental health
- Offers teachers evidence-based wellbeing information / interventions
- Offers easy opportunities for monitoring wellbeing outcomes
- What if we used technology for good
 - Apps
 - Psycho-education and elearning
 - Simulation
 - Serious games

What is digital mental health approach?

eHealth

"A psychological digital approach is any practice which uses health technologies to enhance our work with organisations, networks, families, couples and individuals, to improve wellbeing"

Burbach & Pote (2021)

What is an education technology approach?

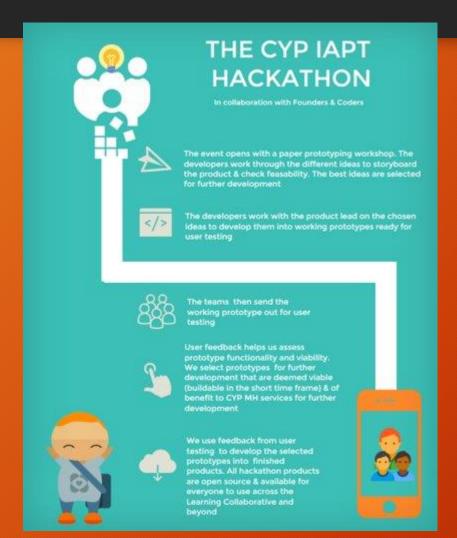
EdTech

"The practice of using technology to support teaching and the effective day-to-day management of education institutions. It includes hardware (such as tablets, laptops or other digital devices), and digital resources, software and services that help aid teaching, meet specific needs, and help the daily running of education institutions (such as management information systems, information sharing platforms and communication tools)."



DfE, 2019

A Fortuitous Invitation: Hackathon





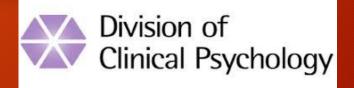


DCP National Digital Healthcare Committee









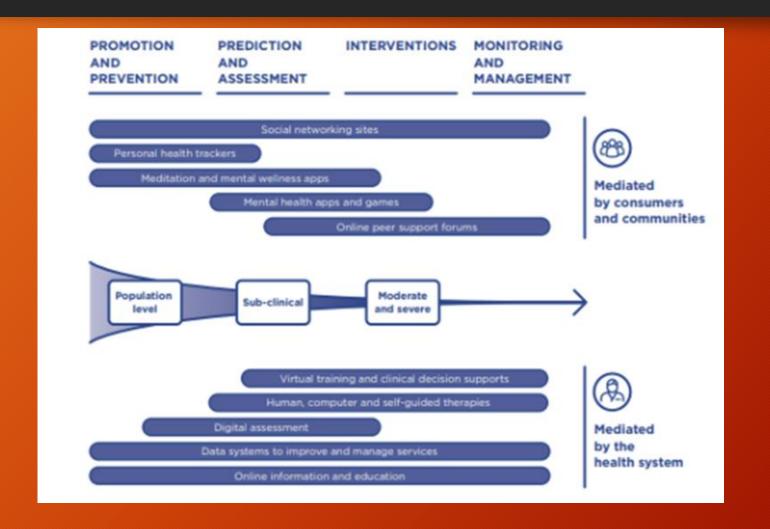


Supporting competent and confident applied psychologists to deliver ethical digital practice

www.digitalhealthskills.com

Digital approach across a range of needs/services

World Innovation Summit for Health Report (2020)



Digital Mental Health as a Choice



Of those who had been offered mental health support by phone or online, 1,094 (80%) took up this offer, and 14% did not take up the offer (others preferred not to say). Types of support people received:

Phone calls

75%



Video calls

39%



Online therapy programmes / apps

26%



Text support

12%



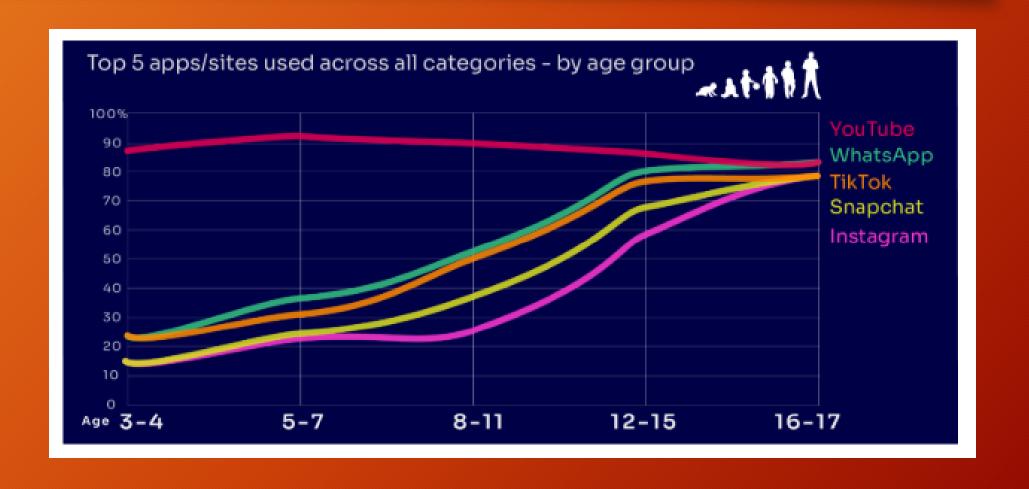
Example 1: Mental Health Literacy App





OfCom 2024

Young people like using apps







- "Knowledge and beliefs about mental health difficulties which aid their recognition, management or prevention" Jorm, 1997, p.182.
- Aims to address barriers to mental health help-seeking in youth
- perceived stigma & embarrassment,
- problems recognising symptoms
- preference for self-help and informal support





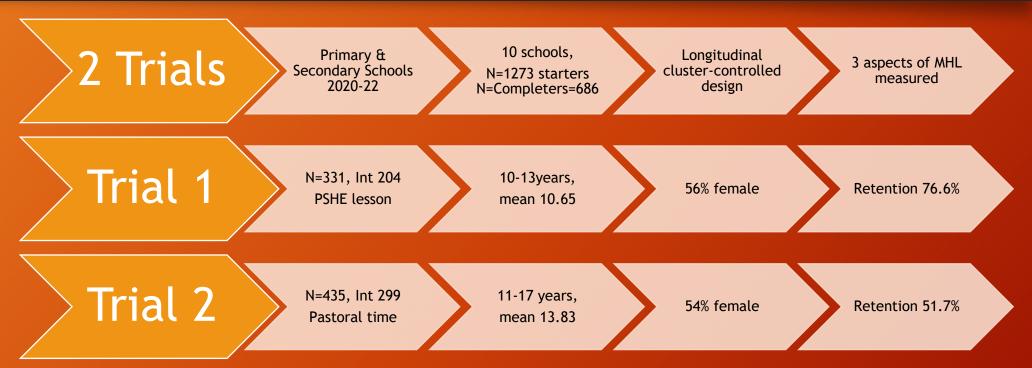
www.mindaid.org



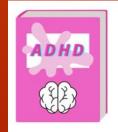
Mental Health Literacy App to a resource to support teachers and CYP to recognise and respond to mental health problems

- Talk: information and interactive exercises about how to ask for help, support friends and discuss worries.
- Quiz: quizzes to check-in with mental wellbeing, identify any difficulties and challenge mental health related stigma.
- Library: 12 modules about different aspects of mental health, getting help and initial self-help suggestions.
- Help: details of local organisations which can provide appropriate support (using GPS technology) and further self-help information.

MindAid Youth: 2 Trials in primary & secondary



Pote, Bemrose & Good (2022)

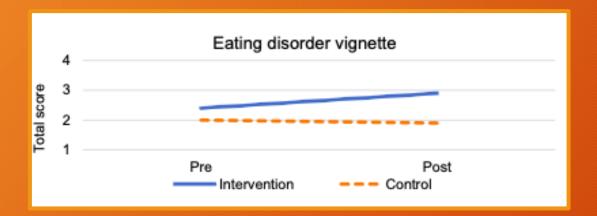


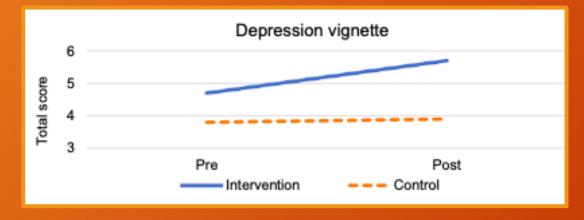




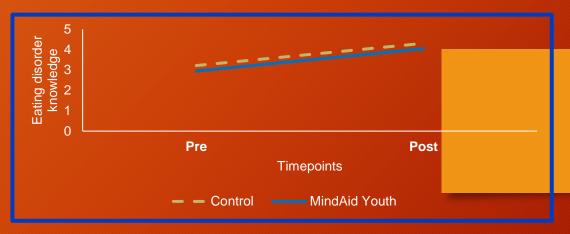


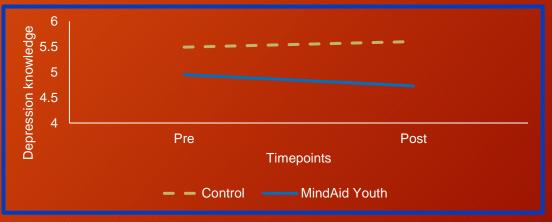


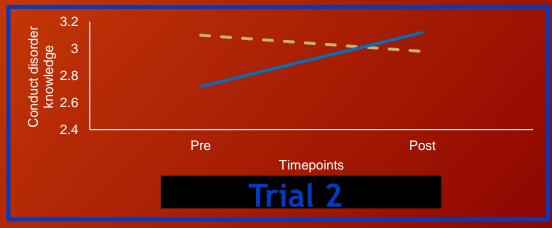












Conclude

MindAid Youth improved younger children's mental health KNOWLEDGE

Youth engagement was high in the short term

We need further studies: randomized with improved measures and better retention

Reflect

Young people's experiences of using the product was positive Consider if there are critical ages for digital intervention for MHL

Future

Need for more interactivity to achieve improvements beyond knowledge-based improvements

A blended approach to MHL interventions may be necessary

Example 2: Wellbeing Augmented Reality Board Game

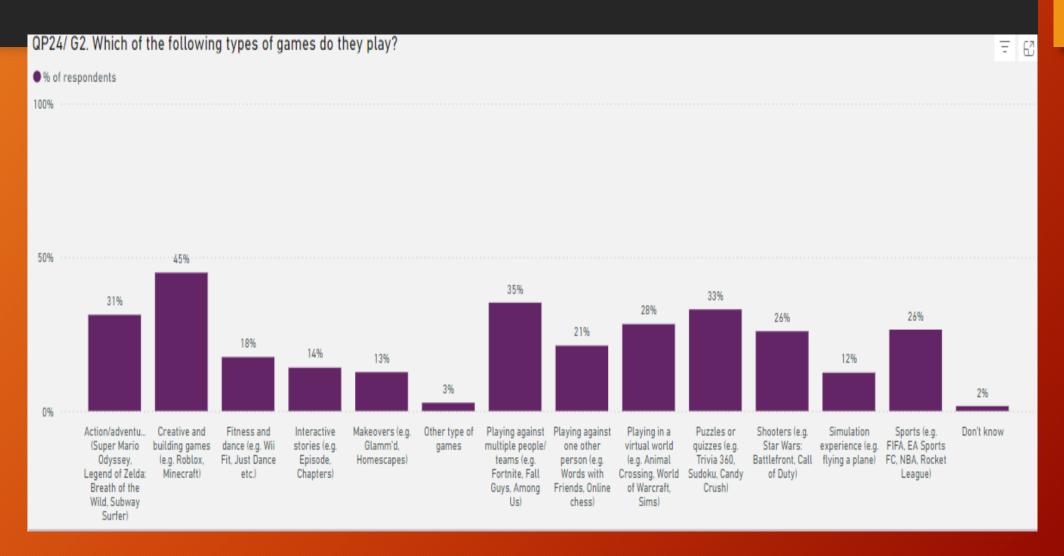






Ofcom 2024,

Young people are engaged in gaming



Gaming is surprisingly social...





Serious games might improve adolescent health?

21 studies on games for 'healthy lifestyle' 'sexual health' and 'substance use Several studies demonstrate serious games can be engaging and pedagogically effective as a learning device and short term behaviour change

Health outcomes were harder to determine and not well measured and limited follow-ups High-quality
evidence is essential
to the ongoing
acceptance and use
of these serious
games as part of the
school curriculum

Andrew et al. (2022)

Game evidence from large national Youth MH trials: SPARX

- SPARX is a tried and tested method of e-therapy, providing effective help with feelings of moderate anxiety and depression
- Developed by Sally Merry and team in New Zealand and rolled out nationally free to all CYP
- CBT informed
- Multiple positive outcome trials since 2012



Dragons of Afterlands



- An immersive, interactive, multi-player AR board game
- It aims to improve wellbeing in young people, across physical, social, emotional and cognitive realms. 4 Dragon worlds with tasks.
- It can be played in person, remotely or hybrid.
- Co-developed with YP & a multidisciplinary team
- Grounded in evidence-based psychological theory



Dragons of Afterlands Trial

- Two-arm cluster trial over 5 weeks
- 2 schools
- Game play vs PHSE lesson as usual
- N= 71 adolescent girls 11-13yrs
- Wellbeing outcomes compared pre /post /follow-up @1month
- Wellbeing outcomes (WEMWBS and WHO-5)
- Mechanisms of change; emotional awareness, emotional regulation, cognitive awareness, and social problem solving
- Qualitative Grounded Theory analysis on game experience and change from young people

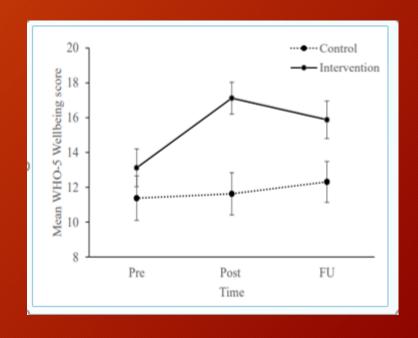


Clark, Rubio, Pote & Campbell (2024)

Results

- Wellbeing Improvement: Adolescents playing the AR game reported significantly higher wellbeing scores post-intervention compared to the nongaming control group on both WEMWBS and WHO-5.
- The effects of the intervention waned over time declining at follow up
- Gameplay led to improved wellbeing through improvements in emotion awareness and emotion regulation skills





INHIBITORS

e.g., not believing game will help



e.g., too many people, others disrupting play



e.g., technical issues, unrelatable content



e.g., practical issues, time constraints

FACILITATORS

Intrapersonal e.g., curiosity &

seeking novelty

Interpersonal

e.g., meeting people and making friends

Intervention

e.g., AR, interactivity, challenge, rewards

Environment

e.g., comfortable atmosphere, feeling safe

- Socialisina

- Teamwork
- Play

PLAYING THE

GAME

- Respite
- Changing viewpoints
- Storvtellina
- Having options

+/reinforcement

PROMOTING WELLBEING

Social connection, self-disclosure and feeling supported

Generating positive affect & reducing negative affect

Perspective taking and reflection

Improving communication & confidence

Emotional awareness and controllability

Problem solving skills

Reflection and join us:

- What are your immediate reactions to games like DoA?
- What would prevent you from using a DoA within your school / service?
- Would you like to offer feedback to shape DofA V2?



Barriers to EdTech in Schools

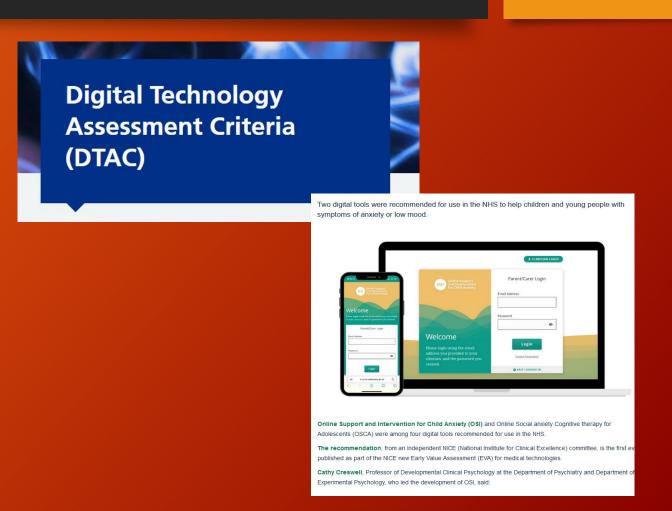
- Limited IT Infrastructure poor internet connectivity
- Staff digital Capability & Skills
- Staff attitudes
- Parental caution
- Concerns about privacy, safety and data security
- School educational priorities
- Procurement Capabilities

Facilitators to Mental Health EdTech in Schools

- Clear tech strategy in school
- Integrating technology into the curriculum what is taught, how it is taught
- Shifting teacher student roles
- AR create immersive learning experiences
- Al personalisation of student experience
- Platforms connecting students and educators (across borders)

Importance of using quality digital products

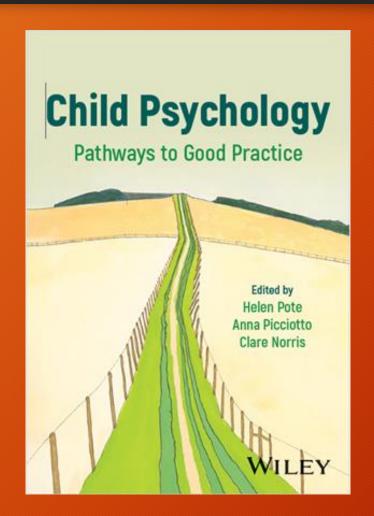
- NICE approved
- NHS & Social Care evaluations of digital interventions - DTAC
- https://transform.england.nhs.uk /key-tools-and-info/digitaltechnology-assessment-criteriadtac/



Importance of training teachers

- In health settings, educating and supporting staff to use and implement digital health interventions has been critical to success
- The same is needed for teachers and education staff
- Interesting approaches in Scotland Teacher Digital Skills Toolkit to help teachers evaluate their own digital literacy skills and identify strengths or next steps for developments
- https://education.gov.scot/resources/teacher-digital-skillstoolkit/
- www.digitalhealthskills.com

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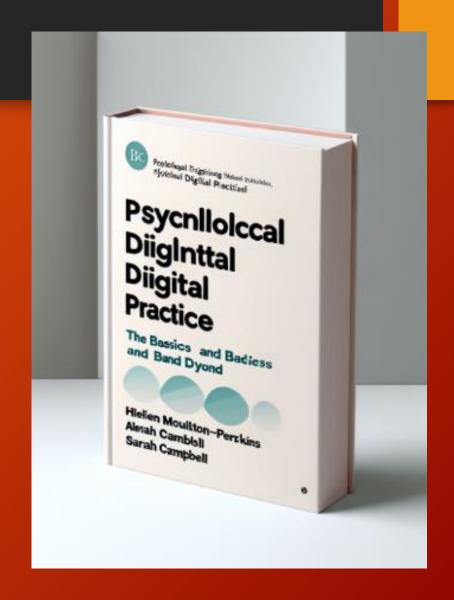


Autumn 2024

Digital Psychological Practice
- The Basics & Beyond
Open University Press.

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Professor Helen Pote,
Dr Alesia Moulton-Perkins
Dr Sarah Campbell





Thank you



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https://royalholloway.ac.uk/research-and-teaching/departments-and-schools/psychology/research/serns/

www.digitalhealthskills.com

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