

UNDERSTANDING THE ROLE OF
DIGITAL TECHNOLOGIES IN
SUPPORTING EFFECTIVE
TEACHING AND LEARNING.

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SPRING / SUMMER 2020 TALK – ISP LEADERSHIP MEETINGS



TECHNOLOGY IN
SCHOOLS: THE REALITY

"COUNTRIES WHICH HAVE INVESTED HEAVILY IN
INFORMATION AND COMMUNICATION TECHNOLOGIES (ICT)
FOR EDUCATION HAVE SEEN NO NOTICEABLE IMPROVEMENT
IN THEIR PERFORMANCES IN PISA RESULTS FOR READING,
MATHEMATICS OR SCIENCE."

- ANDREAS SCHLEICHER, DIRECTOR OF EDUCATION, OECD, AFTER THE
PUBLICATION OF THE 2015 PISA RESULTS.

TEACHER EFFICACY – 1.57
 RESPONSE TO FEEDBACK – 1.29
 EFFORT – 0.77
 MASTERY LEARNING – 0.57
TECHNOLOGY IN SCHOOL – 0.47
 ENQUIRY-BASED LEARNING – 0.4
 HOMEWORK – 0.29
 TRACKING / STREAMING – 0.12
 SINGLE SEX EDUCATION – 0.08
 TEACHER PERFORMANCE PAY – 0.05

VISIBLE LEARNING
 JOHN HATTIE

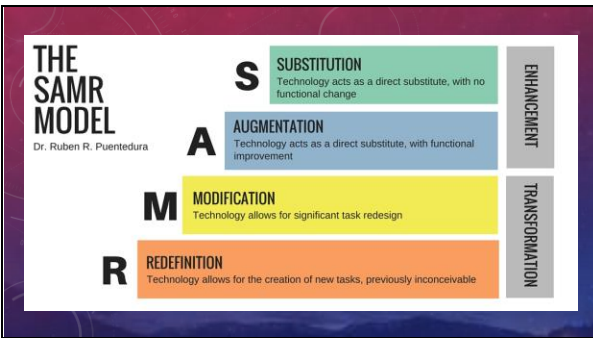
1. YOU WILL STILL NEED A TEACHER, EVEN WHEN YOU'VE GOT GOOGLE
 2. THE ONLY TEACHERS WHO WILL BE REPLACED BY ROBOT ARTIFICIAL INTELLIGENCE WILL BE THE ONES THAT DESERVE TO BE! :)

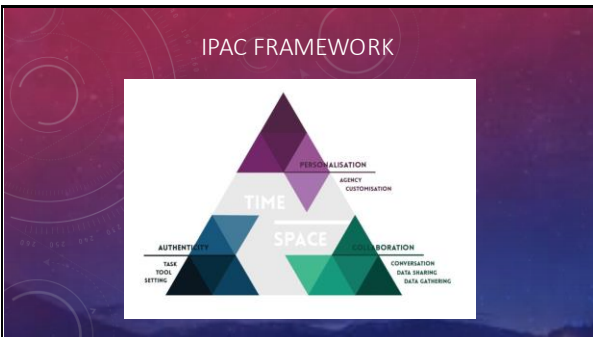
1. BE CLEAR WHAT YOU WANT TO ACHIEVE
 2. SET APPROPRIATE EXPECTATIONS
 3. AIM FOR SMALL SCALE CHANGE
 4. PAY ATTENTION TO THE BIGGER PICTURE
 5. THINK ABOUT UNINTENDED CONSEQUENCES
 6. TECHNOLOGY USE IS A COLLECTIVE CONCERN
7. BEWARE OF OVERCONFIDENT 'EXPERTS'

TECHNOLOGY IN SCHOOLS
7 TOP-TIPS

RECOMMENDED READING: HIGGINS S, XIAO Z & KATSIPATAKI M (2012) THE IMPACT OF DIGITAL TECHNOLOGY ON LEARNING. TECHNICAL REPORT, EDUCATION ENDOWMENT FOUNDATION.







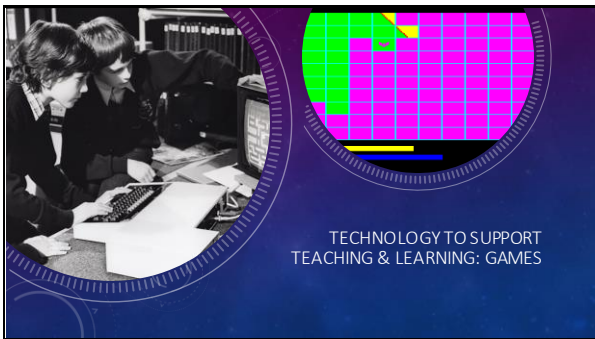
5 MINUTE TASK:

WHAT EDTECH COULD YOU NOT LIVE WITHOUT IN YOUR SCHOOL AND WHY?

bit.ly/gsa5minutetask



TECHNOLOGY TO SUPPORT TEACHING & LEARNING: GAMES



TECHNOLOGY TO SUPPORT TEACHING & LEARNING: GAMES







TECHNOLOGY TO SUPPORT TEACHING & LEARNING: INTERACTIVE BOOKS

FIGURE 1: AFFORDANCES OF ELECTRONIC BOOKS

LAYOUT

- Colour
- Size
- No. pages
- Page size
- Fonts

ARTEFACTS

- Video
- Audio
- Slideshows
- Animation
- Graphics

INTERACTIVITY

- Timelines
- Quizzes
- Testing
- Maps
- Feedback
- Reveals

DATA CAPTURE

- Data to teacher
- Data from teacher
- Analytics

Courtesy Chartered College of Teaching

TECHNOLOGY TO SUPPORT TEACHING & LEARNING: ARTIFICIAL INTELLIGENCE

High reading level

Low reading level

TECHNOLOGY TO SUPPORT TEACHING & LEARNING: ARTIFICIAL INTELLIGENCE

AT&M LEARNING

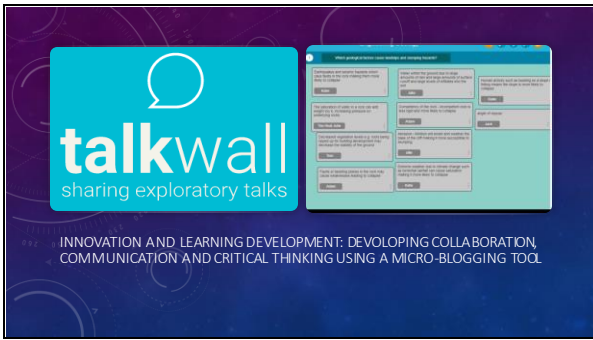
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INNOVATION AND LEARNING DEVELOPMENT:
AUGUMENTED AND VIRTUAL REALITY



INNOVATION AND LEARNING DEVELOPMENT:
AUGUMENTED AND VIRTUAL REALITY

ASSESSMENT FEEDBACK
AND RETRIEVAL: OLIVE TREE
SCHOOL RESEARCH

90% of students who use Quizlet report receiving higher marks.

ASSESSMENT FEEDBACK AND RETRIEVAL: LOW STAKES TESTING, TECHNOLOGY AND LEARNING

CONSIDERATIONS WHEN IMPLEMENTING EDTECH PROJECTS

CONSIDERATIONS WHEN IMPLEMENTING EDTECH PROJECTS
