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Posted by Julian Owen | May 04, 2018 | Technology #digital-trail

education? Sophie Beyer finds out... #independent-education

#digital-skills

in Digital choices for schools seem to be growing

is an exciting array of hardware for different and learning analytics. Talking to educators in the independent sector about their experiences

shows a wealth of different practices. Teachers are experimenting about which devices work

best for them in their classrooms, and also with how to teach digital skills in exciting and innovative ways. Technologies such as mixed promise of new and exciting tools for schools, but where is the independent sector with tech? How are schools using tech such as VR/AR, if at all? Ian Phillips, Assistant Head of Haberdashers' Aske's Boys' School, chairs the Independent School Council's Digital Strategy Group. "It's a mixed approach," said Ian. "The independent

sector is a cornucopia of individualism.

Independent schools have been inspiring people. The big schools, they've embraced tech in a really innovative way." Two of the Digital Strategy Group's four current tech projects are Learning Analytics and AR/VR research. Eight schools have been loaned headsets, and results will be shared at their conference in May. Tech hasn't been very transferable between schools yet and the ISC Digital Group will publish standards for how to get started in June. "The bottom line in all of this is that young people need to have these experiences to inform their education, not just about work, but also the sort of world they are going to take their place in," said Ian.

Ian Phillips Graeme May, Deputy Head at Abingdon School,

acknowledges the benefits of tech, such as

resources for flipped learning, but strikes a note

of caution. "The jury is totally out on whether

tech has had a measurable impact on learning

and whether it has changed results," explained

Graeme. "Then there is a whole other debate

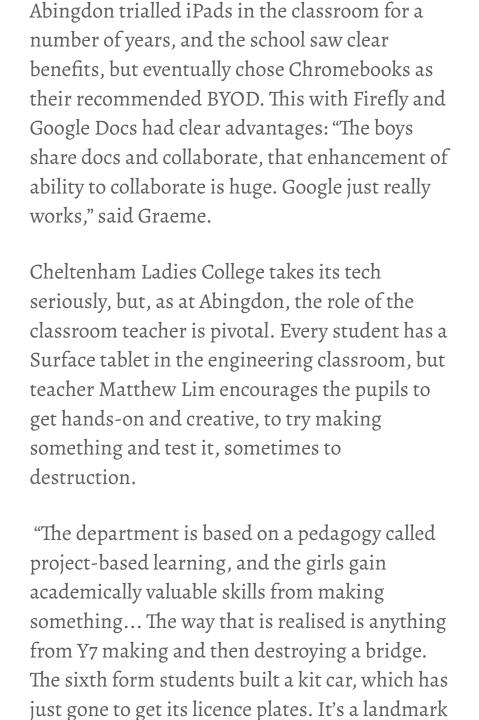
about safe and sensible use... [But] pupils like

the online resources, videos and links and they

means of providing that. This generation expects

like a variety in the classroom, this is another

tech to be used."



occasion for our girls. It's technically ambitious

The primary focus for Bristol Grammar School's

(BGS) technology the last five years has been 1:1

iPads. Walk around the classrooms and it is easy

to see how the tech is integrated seamlessly into

from Y3 have iPads provided on 1:1 basis, as well

as banks of chromebooks and computer rooms.

lessons at all levels of the school. All students

and keeps girls engaged in STEM," said

Matthew.

Bristol Grammar School Daniel Stone, Deputy Head at BGS, explained how their teachers have been won over by technology and BGS has not prescribed how to use the devices, allowing the teachers to innovate. This means they are now doing things which wouldn't have been possible a few years ago.

Daniel talked about the apps which help gamify

learning, but for him there is a clear benefit of 1:1

devices. "For me it's an immediate engagement,

a connection with the world they are used to

exploring outside the classroom. It integrates

with their world. Structurally we've put a lot of

things in place, and we manage them so they are

purely a learning resource. We want outstanding

engagement. [The devices] provide outstanding

practitioners and experts in the field, so now the

Independent schools, then, are taking different

paths but these digital trailblazers all share a

learning and we really need outstanding

resources and apps... We have brilliant

power is in the hands of the learner."

willingness to try new things. Westminster School's Head of Computer Science is Sam Page. Her enthusiasm is infectious, she likes the Maker Movement, and to say yes to her students' quirky ideas. Every child that signed up for the iGCSE thought up a challenge project using computers from pi-top. "We had 48 kids doing all sorts of crazy things: one boy had made a drawing robot, another a machine that solves Rubik Cube. Boys have been working on APIs from other sites such as buses or weather, using their coding skills and embedding into their own bespoke hardware," explained Sam. The reason, she said, that Westminster can get them to this stage at Y10 is that all the Y9 boys do

a compulsory course in Python. The support

It's a real team effort, between the school,

"A pupil is an expert, we make their dreams

wise person at the front of the class, we are

become the reality, but we don't have to be the

working collaboratively with them, exploring the

journey together," said Sam. "It's empowering for

the pupils and teachers. This is changing really

teacher and pupil.

fast."

from the school and her colleagues is also crucial.

It is the openness to new tech which is clear when these schools describe their experiences. Although tech is well used in these schools, none seem to use VR/AR routinely yet. New devices and software come to market every day. How might these new offerings augment education? Vuze claim that their cameras make the creation of true VR content accessible to just about anyone. "For independent schools, the Vuze cameras allow the outside world in," said Shahar Bin-Nun, CEO at Humaneyes Technologies. "Students can be taught about the world of VR including how to capture videos in 3D, 360°, and 4K resolution as well as watching their footage back. With the Vuze+, they can preview their creation and learn how to live broadcast to Facebook, YouTube and Periscope in any weather

condition thanks to the cameras' water-resistant

immersive, inspiring and unforgettable learning

Ian Fordham, Director of Education, Microsoft

UK has some news about a great leap forward in

"Implementing mixed reality and 3D technology

can enable students to think and visualise in a

new dimension, as well as retain information

be rendered into 3D and brought to life in the

new HoloMath app, tailored for students from

visualise math concepts and geometric shapes,"

"As we are also entering a world of AI, mixed

reality and quantum computing, we're excited

about the potential of these technologies being

used by young people, schools and teachers to

The independent schools I spoke to were all

confident with 1:1 devices in the classroom, and

teach tech in creative ways. Virtual tutors and

learning analytics are not yet well embedded,

experimenting with VR/AR, the benefits of this

understood. More research would help inform

the use of digital technologies in independent

Tech companies move swiftly though, so schools

when it is combined with what could be the next

bristolgrammarschool.co.uk; westminster.org.uk

big things: learning analytics, AI and quantum

habsboys.org.uk; abingdon.org.uk;

cheltladiescollege.org;

should learn the true value in classroom tech

and, although some early adopters are

tech beyond engagement are still not well

empower them to create the world of tomorrow."

primary to secondary school, to help them

better. Paint 3D, for example, enables objects to

physical classroom. Pearson have also created the

design. Giving students the chance to see their

footage through a VR headset provides an

experience."

computing.

said Ian.

schools.

computing.

Cheltenham Ladies' College

Preparing for the fourth industrial revolution pi-top explains how to equip students for future success We are in the midst of what the World Economic Forum calls the 'fourth industrial revolution'. Millions of technology jobs are going unfilled today because of a lack of skilled workers while other jobs are being outsourced to automation. As VR and AR continue to grow in popularity and application, more and more jobs will become available to today's students, but we risk having the skills gap widen. As such, it's vital that we have an education system that equips learners with the knowledge and 21st-century skills needed to thrive in our transforming world. How do we equip our students for future success? The solution can be found beyond the textbook, beyond a 19th-century 'Instructionism' delivery model. By following a 'learning by making' approach to STEAM education - what education researchers call 'Constructionism' - many successful teachers today have transformed their classrooms into

experiential, hands-on learning environments, often

students build the skills they need to be career ready,

classrooms. A hands-on learning approach helps

For example, consider a student who is building a robot or constructing a music synthesizer or other

development process of that robot or synthesizer the

student is learning wider science skills that can be

We believe teachers embracing 'learning by making' is vital to future success in the global economy. We're focused on helping educators provide high-quality

learning in the classroom through learning-bymaking in order to bring science, technology,

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engineering, arts and mathematics to life.

using VR and AR to create exciting, vibrant

developing abilities such as problem-solving, teamwork, creativity and critical-thinking.

compelling project. Through the hands-on

applied to the real world.

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Blazing a digital trail What are schools' digital experiences, and what could be the next big thing for technology in independent #technology #edtech #gamification