London
Design &
Engineering
UTC

Teaching and Learning
Newsletter

LDEUTC

19-10-2020

ENGLISH KS4

Below you can see Year 11s working hard on their paired assigned. Learners were asked to respond to potential investors / directors who represent one of the largest theatres in London's West End.

Learners were preparing a 3-5 min pitch to convince the investors to agree to fun and run a new production of 'Inspector calls'

Great seeing brilliant use of mini whiteboards!

Using Lego sets to support a quick 10 minute retrieval of the key events and themes within the opening 4 scenes of Macbeth worked really well on Friday. Here is the winning creation from my Year 10s - loved the influence of the witches on the murderous thoughts of Macbeth being shown by their presence just off stage while he received news that he was to become Thane of Cawdor. The other one illustrates the imagined disruption to nature if the Chain of Being was to be challenged.

Built Environment KS5

Year 13 Built Environment learners were presenting their Mozilla hub spaces to the class this week. The learners were applying how these 'fantasy'' virtual worlds could have technical elements to them. The objective was to apply traditional and modern methods to the virtual worlds and think about buildability.

This formed a part of their summative assessment as you can assess their understanding and application to the construction industry.

We're very happy to announce that two of our KS5 learners secured work experience placements with Hawkins and Brown for half-term!
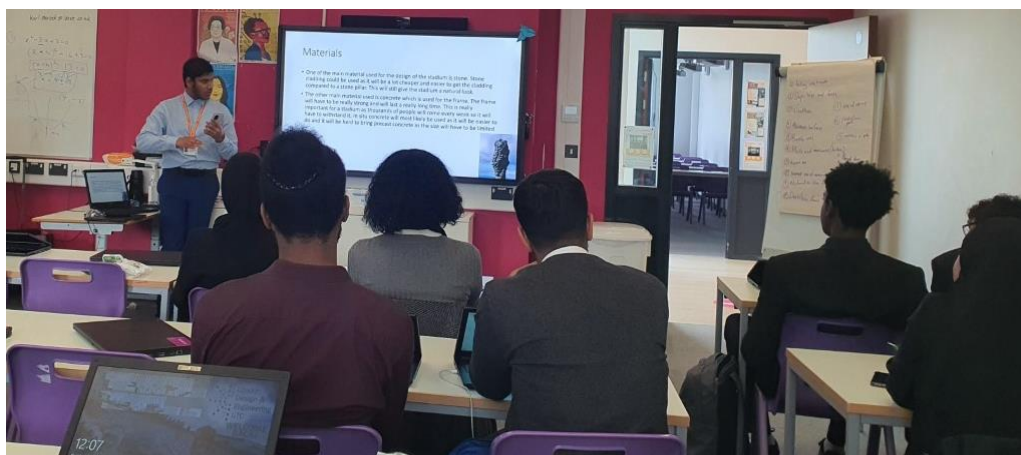
Congratulations your placement has been confirmed ☆

📩 Inbox

The Experience Team 14:18
to me, janice.tricks ⌄

Dear Adama,

Congratulations! You've been selected to attend work experience at Hawkins Brown.

Click here to see the details of this placement.

If you are not able to attend please withdraw your application via your dashboard or email us on experience@speakersforschools.org.
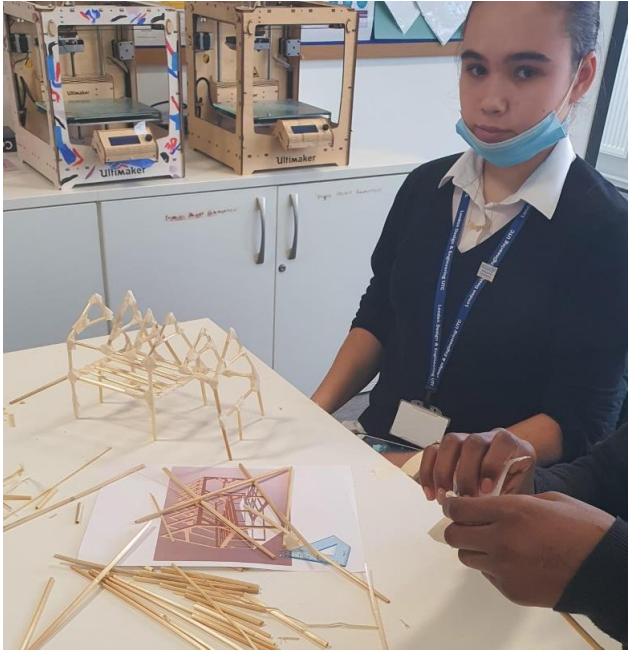
Let us know if you have any questions.

Best wishes,
The Experience Team

**Follow us on Twitter:** https://twitter.com/

Hawkins\ Brown

APPLY

Learners were exploring Unit 3 and structural forms in depth this term. They applied their knowledge of how to create trussed rafters to develop secure structures by joining the timber at certain points to create strength and stability.

The challenge was to use a limited number of tape and no glue to create the strongest structure!
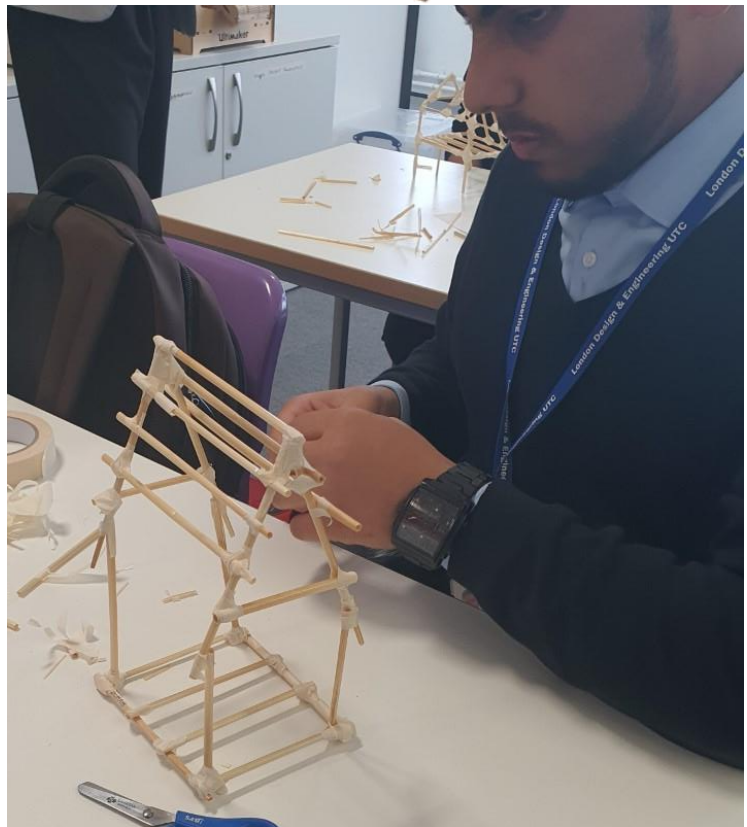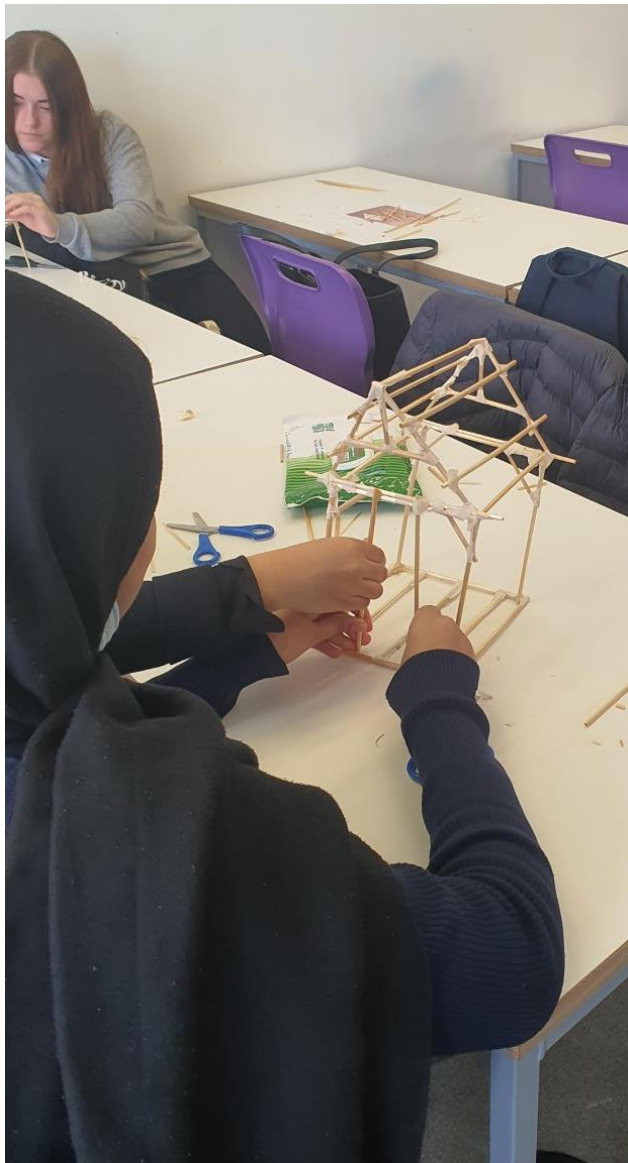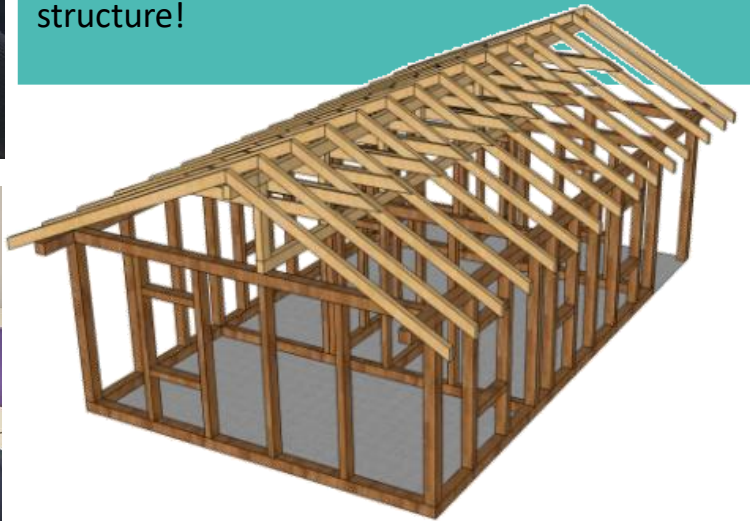
ART Year 12

Year 12 learners have been exploring line and techniques on tight fine details in drawing to timed loose more fluent response to line.

APPLY
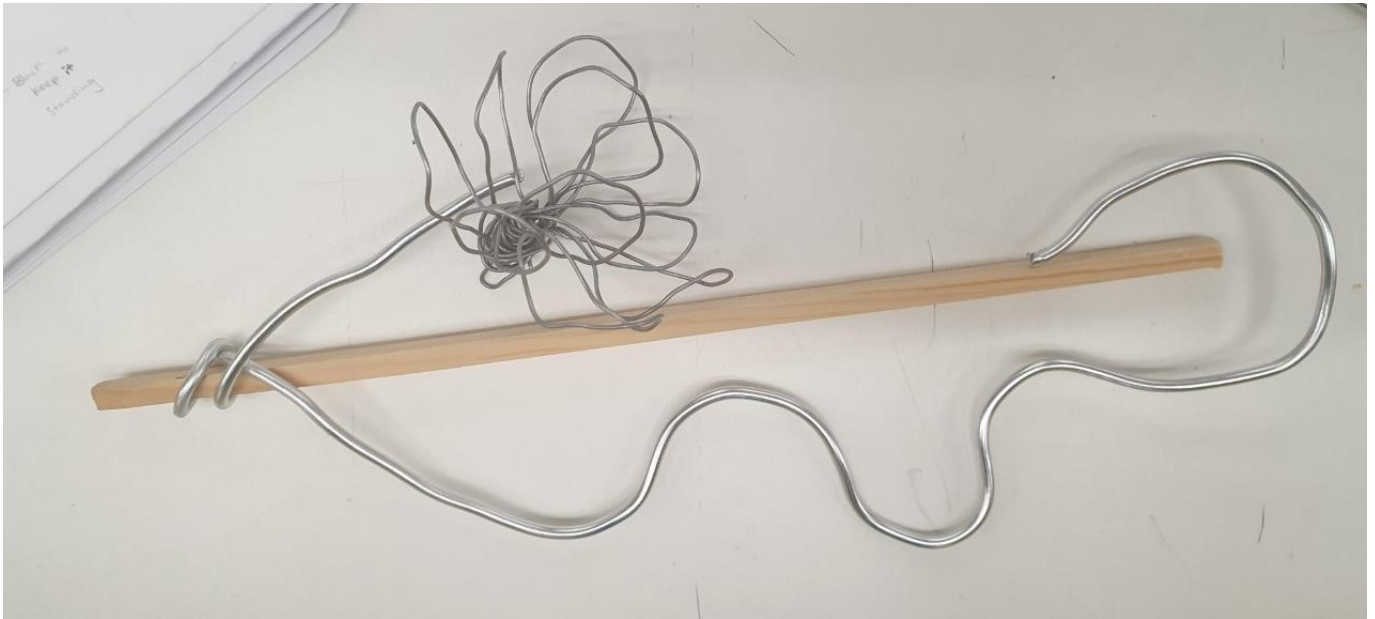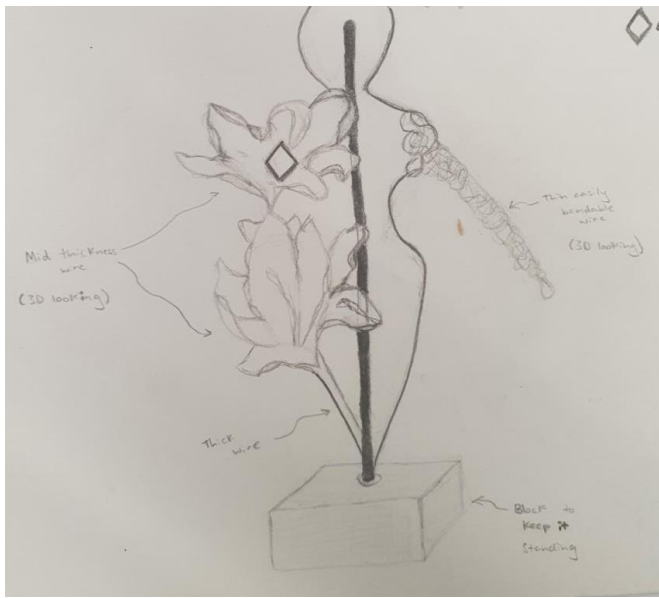
Developing from their drawings of still life, figurative and architectural compositions, learners then took this to explore continuous lines, broken or expressive lines with wire.

They are taking the line and using wire to create 3D outcomes.

SCIENCE Year 9

Science faculty created a fun and innovative way of getting learners to understand the job of a forensic scientist by setting up a crime scene on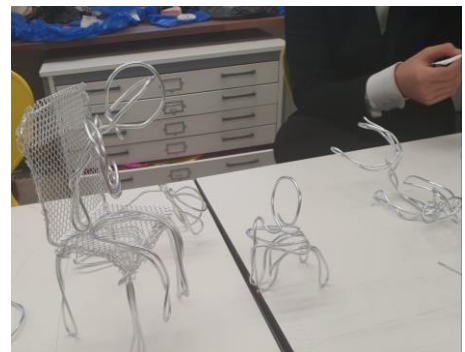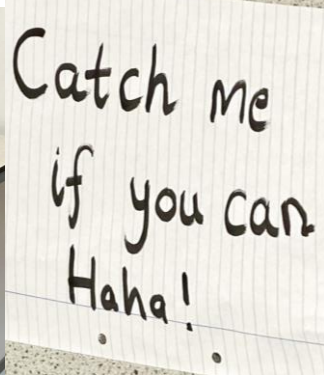 the second floor where Steve's iPad had gone missing, There was plenty of evidence left at the crime scene. Learners had to test the pens that were on the desk to find out which pen was used to write the note. This allowed learners to carry out paper chromatography. Learners had to read the evidence files of the four suspects and understand what they had got up to, on the evening Steve's iPad went missing. Learners had to analyse the footprint left at the crime scene along with the mystery powder. At the end they had to come up with a conclusion after gathering all the information who was the criminal that had committed the crime. Lastly, they were able to summarise the role of a forensic scientist. Describe the science knowledge and skills you need to become a forensic scientist and what skills had they learned in this process?

Catch me if you can Haha!

DIGITAL

Teaching remotely can be challenge, however our teachers are persevering and finding new techniques for feedback and assessment. See examples of how the Digital team has explored strategies to give learners detailed feedback through formative assessment.

3DS MAX

In the image above you can see a good example of teaching digital skills remotely learner in class and at home, both posting progress in chat, there was lots of engagement on the chat in the forms of questions etc. Learners have generated much evidence for their Teams class notebook which will replace the old Padlet portfolio approach

The video (click here) shows how James created the course delivery guide page and unit progress bar once and distributed this to all as part of their course document folder.

James made a new feedback graphic based on the orange sticker and green feedback and pushed this as a template to all, then he went into each learners page and gave individual feedback based on their recent work for feedback week. This appears to only the individual leaner but he was able to set up text boxes and graphics for all in the template first.

Computer Components and Data Representation

DATE: 9/24/2020	Name: Haris - Computer Components and Data Representation
S [Strength] - Identifying what went well	Good understanding of storage devices
I [Improvement] - Identify areas learner can improve	Need to be able to identify and understand the purpose of the essential components of the computer
T [Target] - Pose a high-level question to challenge thinking	Demonstrate the use of a binary number placeholder and convert 11100101 to a decimal number
Literacy Target - Use the extended writing criteria	Make sure you use technical vocabulary and context in your answers where possible.

.By studying and researching

.Understand binary with youtube videos

.implement the writing criteria

Set the standards

1. Make *what does excellence looks like?* A routine

2. Deconstruct examples

3. Co construct success criteria

4. Reference constructing exemplars

5. Blend teacher assessment and self assessment
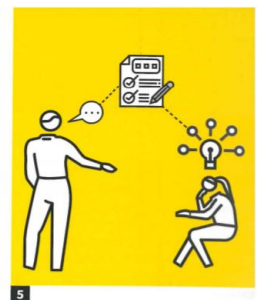
Teacher Development

We have delivered our fortnightly focus and our CPL remotely and the feedback has been positive.

We are continuing to maintain and enhance the knowledge and skills that will allow us all to deliver high quality lessons.

https://ldeutc.padlet.org/VictoriaWebb/CPL
https://ldeutc.padlet.org/VictoriaWebb/WallWalks

DIRT session should include <u>reflection, monitoring, evaluation, planning</u> and <u>regulation.</u>

Reflection, monitoring & evaluation may refer to: levels of effort, degrees of preparedness, successful and unsuccessful strategies used in approaching the assessment, various measures of the works' quality or the students' progress in certain areas.

Regulation and planning generally refers to: establishing targets for improvement, clarifying what to do differently next time, and outlining steps that need to be taken in order to actually meet established targets.

Do Now

1. Long term recall (previous topic):
What are Rosenshine's Principles of instruction? (there are 10)
2. Mid-term recall (a few lessons ago):
What rules and routines are important in your classroom and why?
3. Short term recall (last lesson):
Why is scaffolding important in lesson planning?

Our internal T&L CPD focused on **retrieval practice**. Adam shared a whole variety of strategies that can be used across the college to embed retrieval practice.

Ebbinghaus Forgetting Curve

First time learned

Revisions

Knowledge Retention

Days
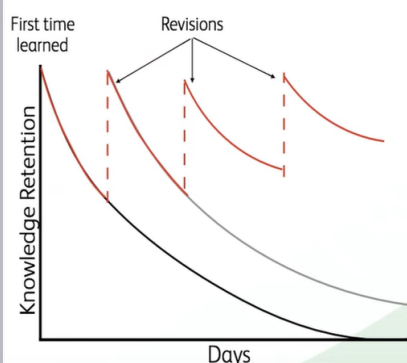
The first time we learn something, we forget it rapidly

When we revise the information, our level of knowledge peaks again

But more importantly - the rate at which we forget the information slows down

Shafina @ShafinaVohra · Oct 11

And some more from #science - biology and cell structure @LDEUTC @LEGO_Education
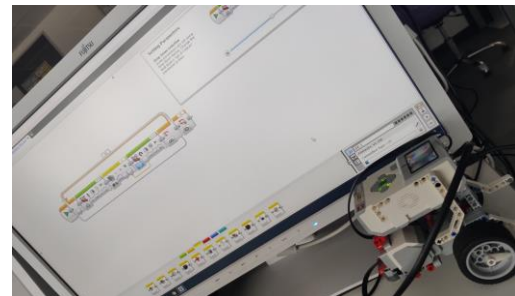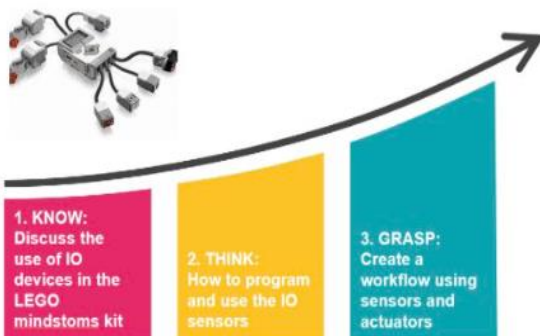

Our learners are using Lego to demonstrate input and output devices in CS

They were given a tutorial on how to play a sound on the P Brick and asked to explore the other sensors and components and write a program to combine the use of sensors to create an output

LEGO

LEARNING AIMS

1. KNOW: Discuss the use of IO devices in the LEGO mindstoms kit

2. THINK: How to program and use the IO sensors

3. GRASP: Create a workflow using sensors and actuators

Shafina @ShafinaVohra · Oct 14

Lesson in #psychology which was fun to watch and very clever to hear! On schemas from the works of Piaget. I asked them to create a schema of one of three words using #lego but this time with eyes closed! 😄 can you guess which are schemas of school, apple or London? @LDEUTC

Another busy few weeks with teachers across the college utilising the Lego kits!

DIGITAL KS5

Taking 2D into the 3D in one session!

Lots of fantastic work within the Digital faculty – from Masterclasses to application of skills and knowledge.

On the image to the right you can see how a 2D image was developed into 3D.

Below is a brilliant illustration by our very own Year 13!

Epic stuff from our L3 #DigitalMedia learners @LDEUTC

LDE UTC Retweeted

Sarwar Ahmed @LDEVRLab_Sarwar · Oct 1
So when this hit my inbox today I was like whoa!! Blown away by this brilliant illustration by our learner @anais_ano @LDEUTC @creativecloud #adobe #Illustrator #talent
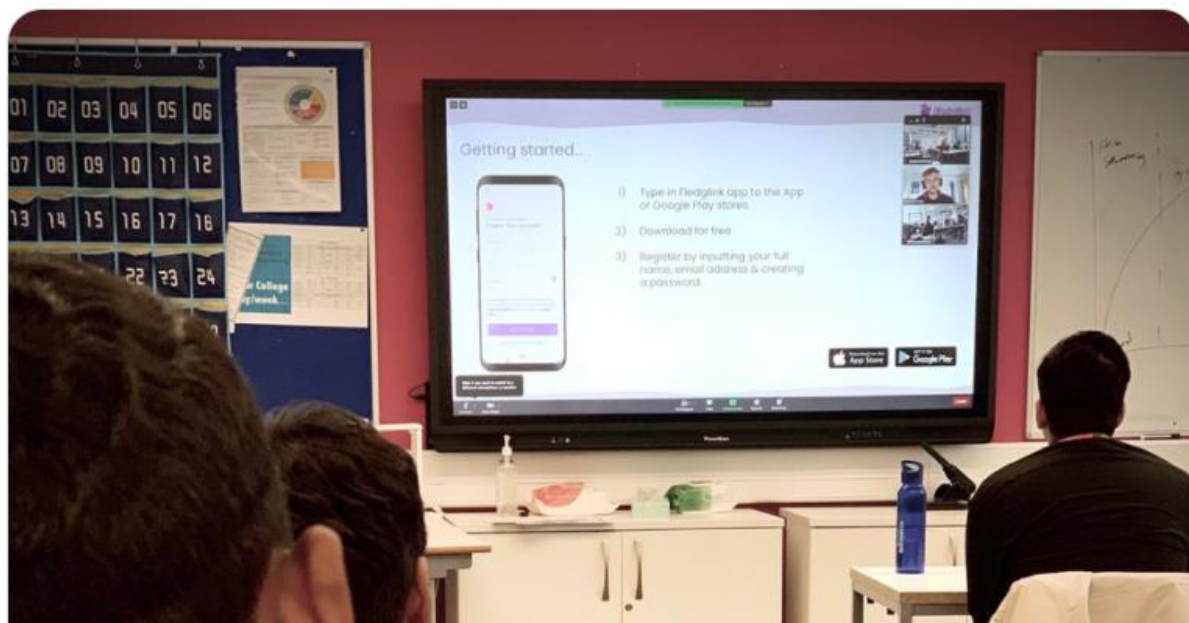
LDE UTC Retweeted

Sarwar Ahmed @LDEVRLab_Sarwar · Oct 12
@Fledglinkapp streaming in live right now with our Y13 learners @LDEUTC demonstrating how their app can help them network, be prepared for life after college and improve job opportunities! #careers #opportunities #ldeutc #fledglink #skills #tech

Try these low stakes assessment strategies using retrieval practice.

Strategy 1: FIND and FIX

Instead of answering questions, pupils find the errors in the statements and explain why they are incorrect.

Find and Fix Historical errors: Power and the People Individuals
Can you find the 21 mistakes?

Olaudah Equiano was given his freedom	Lord Robert Slice repealed the Corn Laws.	King John held the youngest son of some barons as hostage	Annie Besant was an author who supported the Match Girls strike
Simon De Montfort invited two peasants from every county to Parliament	Lord Shaftesbury focused on improving conditions for Street painters	Emmeline Pankhurst was never arrested	William Wilberforce was Prime Minister
Wat Tyler was a priest	Feargus O'Conner was editor of the Southern Moon	Robert Aske made sure that all of the protestors took the travellers promise to show they were not rebels.	Arthur Scargill was leader of the dock workers union in the 1980s
Oliver Cromwell led the Royalist faction in the civil war	Enoch Powell's famous "rivers of hatred" speech was pro-immigration	Henry VIII changed religion because of his theological differences with the Pope	Titus Pepper built a whole town, Peppertown, for his workers.

Strategy 2: REVISION CLOCK

Learners are given a sheet split into 12 sections.

Each section is about one aspect of a topic.

Learners have 5 minutes to recall everything they know about that aspect of the topic.

They then have to move on to another aspect/section of the sheet.