Motivation: Creating engaging and stimulating Web based material

- Blended Learning.
- Cloud Integration.
- Stimulating material.
- Evaluation of On-line Material.



Prof Bill Buchanan, School of Computing

Twitter: @billatnapier

Web: http://asecuritysite.com

http://brightredbooks.net

Cloud is a disruptive technology ... probably the most disruptive since the transistor

Microchip





Transistor

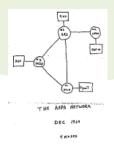


Microprocessor



The Cloud

The Internet





The Personal Computer

N5 Integration

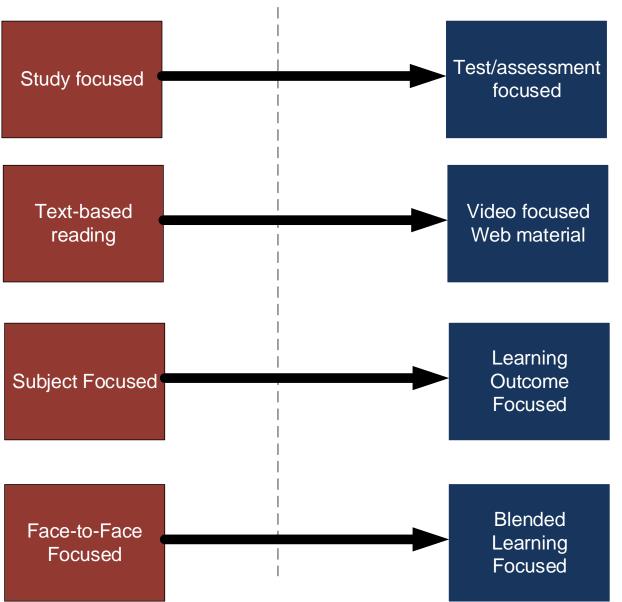
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Cloud Integration



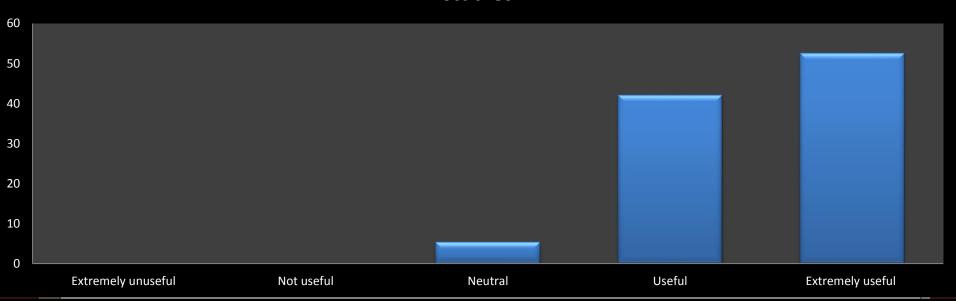




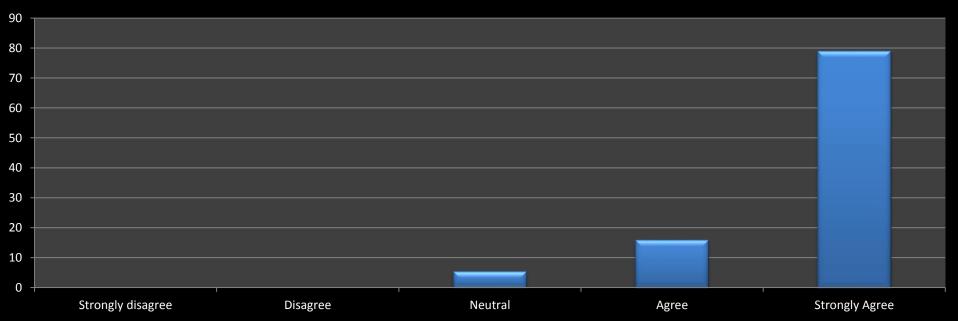




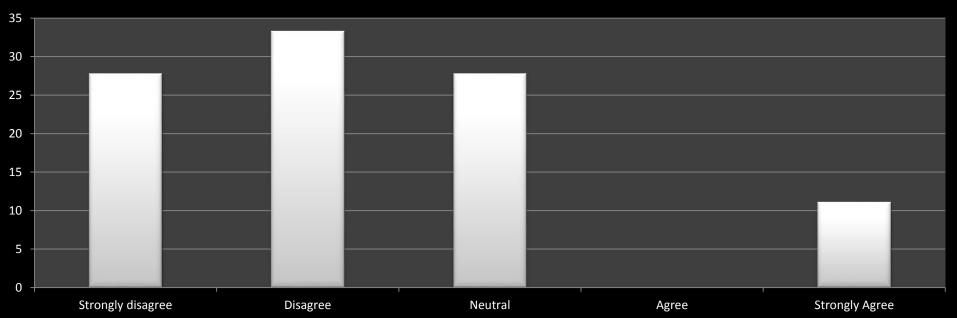
1. How useful is/were the on-line video versions of the lectures for your studies



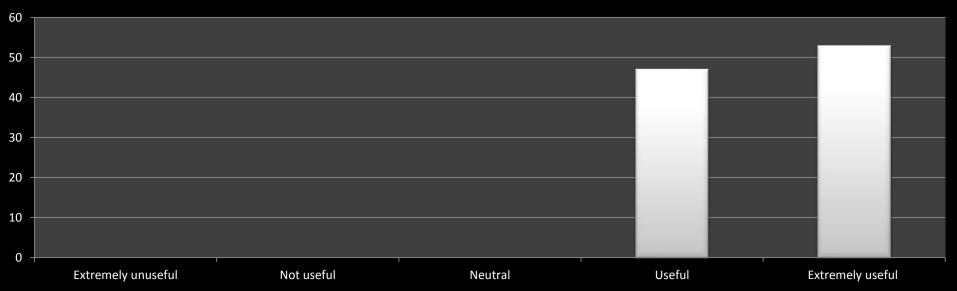
2. Do you think that all modules should have associated on-line lectures?



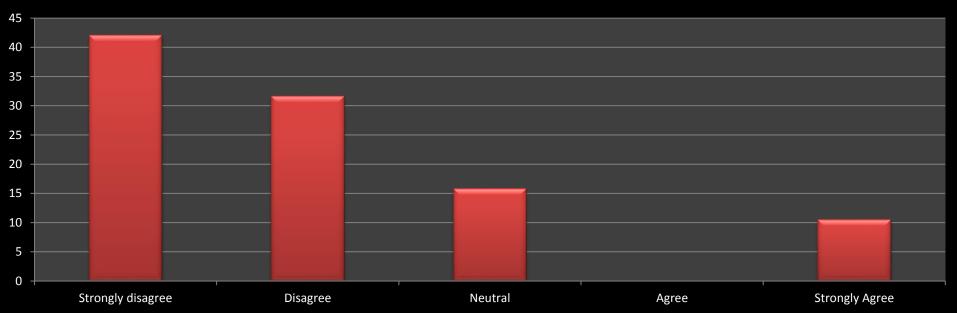
3. Should on-line lectures replace traditional lectures?



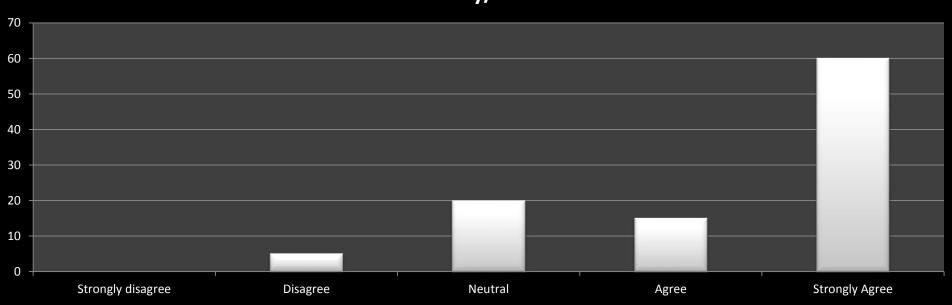
4. For guidance in performing practical work in the lab, how useful are online step-by-step video captures of the lab?



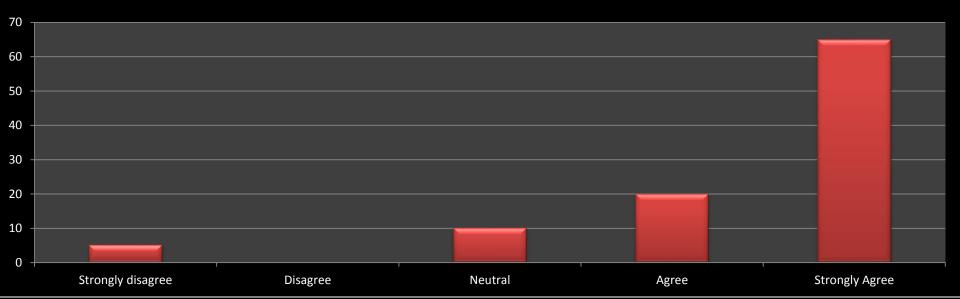
10. On-line lectures should replace traditional lectures.



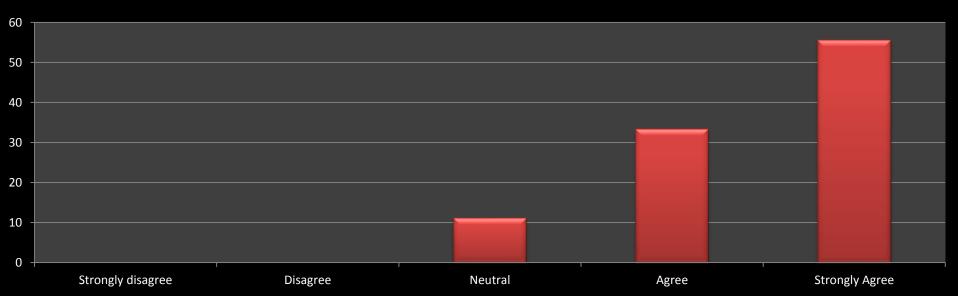
15. I believe the on-line lectures enhance the reputation of my programme/ university/ School.



13. The on-line lectures allow me to catch-up on things that I did not quite understand in the lecture.

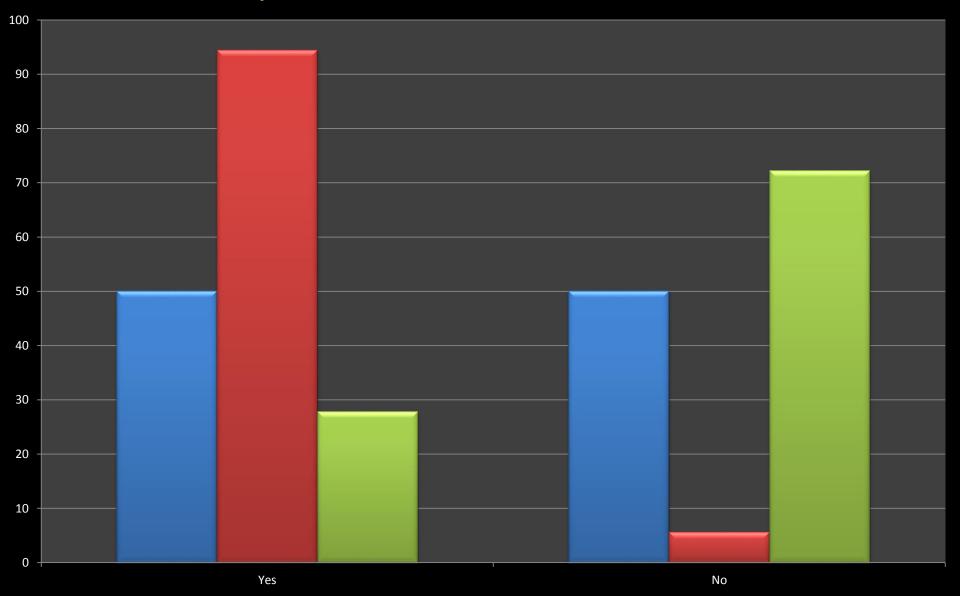


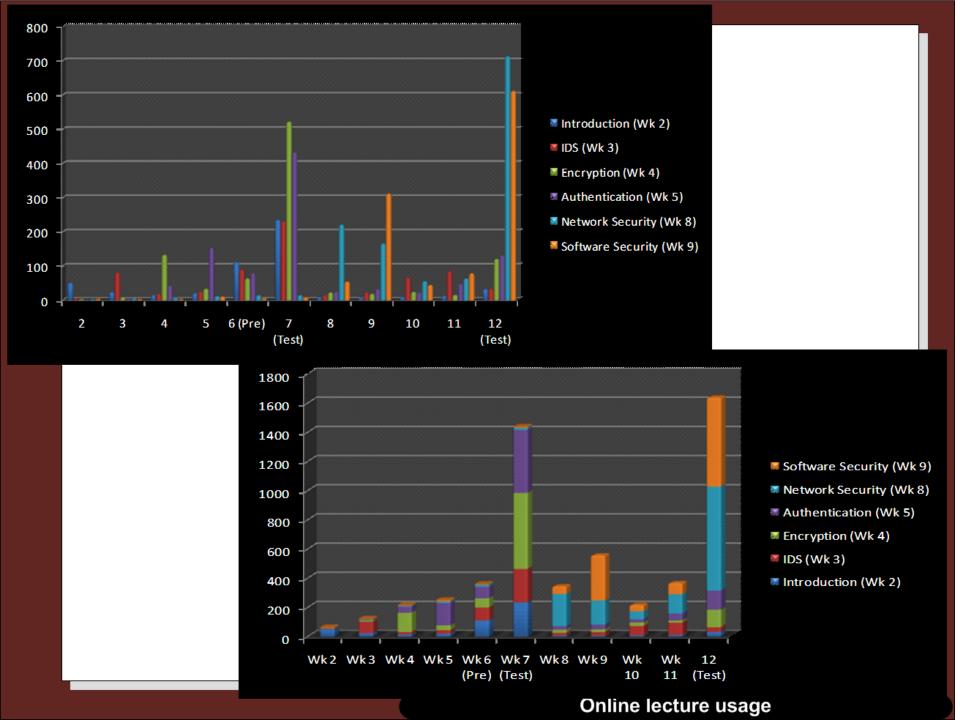
14. I mainly use the on-line lectures to catch-up on material before an assessment.

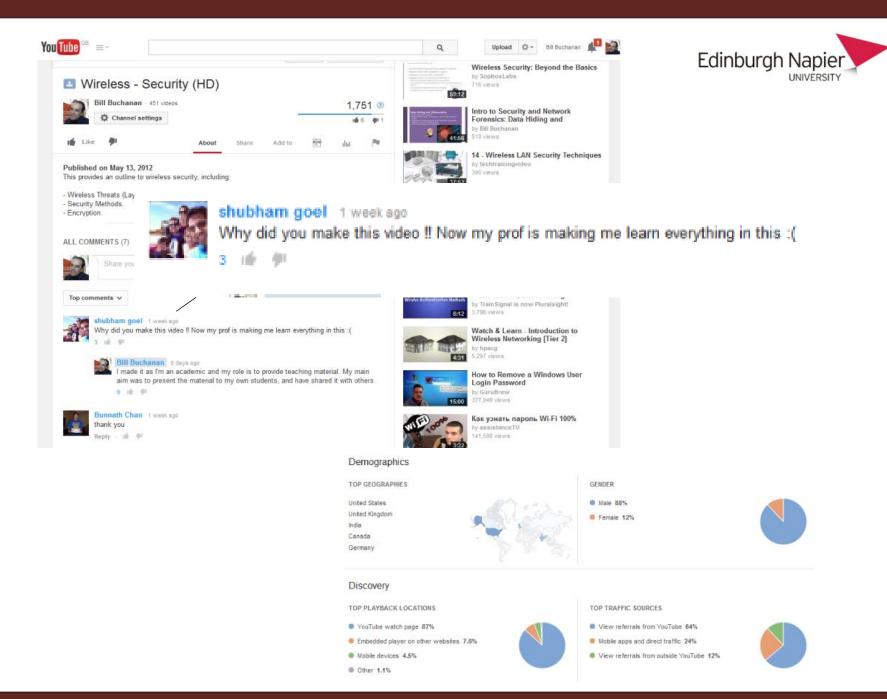


25. Did you find that you use the on-line lecture to:

- prepare before the actual lecture
- review after the actual lecture
- replace the actual lecture







N5 Integration

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Stimulating Material



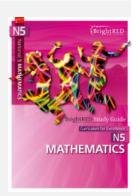
The Cloud can enhance teaching ... but good teachers are the key!

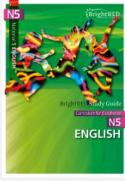


Allow for many ways of learning and delivery mechanisms









ATOMIC STRUCTURE: THE STRUCTURE O ...

Overview

This section supports pages 14-15 of the BrightRED N5 Chemistry Study Guide which covers the Structure of the Atom. Ancient Greek philosophers originally had the idea that if something was broken down into smaller and smaller pieces eventually it would not be possible to break it down into anything simpler. At the start of the nineteenth century, the English scientist John Dalton (1776-1803) put forward. atomic theory to explain his experimental observations. Dalton was the first person to use the word atom, which comes from the Greek word atomus, meaning unspittable. Atoms are tiny particles that are present in all elements and each element in the Periodic Table has its own atomic number. The atomic number of an element is equal to the number of protons in its nucleus. When learning about the Structute of the Atom, the key topics explored are:

- . The History of the Atom
- . The Modern Atomic Model
- · Atomic Number and Mass Number



Increase in test-based learning

To see more about basic atomic structure, click on this link and watch the clip - Link

Learn more about the Structure of an Atom by watching this video



Increasing Integration with Youtube

tests

Increase enforcing feedback during and after

6. What is -128 in 2's complemen

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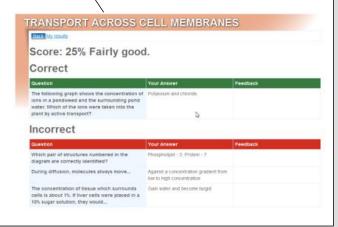
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tests

	RT ACROSS CELL MEN If a solution is 10% sugar, this means that it is 90% water. Water moves from a high water concentration water. Water moves from a high water concentration to a lower water concentration. Next	
	ntration of tissue which surrounds cells is about 1%. If liver cells were place ar solution, they would	d
A	Lose water and become plasmolysed	
В	Gain water and become turgid	
C	Lose water and shrivel out	
D	Gain water and burst	



Ever-changing "infinite"



Values

Interquartile Range and Boxplots Back Enter your values

Calculations

Median (Q₂): Jpper Quartile (Q₃):

interquartile range

You can enter values separated by commas

10,11,11,13,15,17,21,26,26,27,24,20

Examples

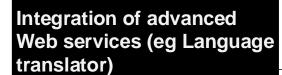
- + 1,2,3,4,5,6,7,8 Median=4.5 Try 1,2,3,4,5,6,7. Mediann4. Try
- * 1.09.1.20.1.05.1.43.1.00.1.15.1.25.1.03.1.19.1.36. Median=1.17. Inv
- 18.23.23.26.32.36.46,56.70. Median (Q₂)=32, Q₁=46, Q₂=51.
- 20,25,18,26,21,35,30,26,25,29,31,18,35,30,27. Median(Q₂)=26. Q₁=21, Q₃=30, Try

Supportive environments with solutions to problems

Back Press the button for the translation [I love Paris in the Springtime)(Can you tell me where I can purchase some coffee?)(What is the

Helio to the Learning Through Technology Conference. So nice to be able to present some of our ideas.

MATHEMATICS



Translation Parameters

Bonjour sur l'apprentissage par le biais de conférence sur la technologie. Tellement agréable d'être en mesure de présenter certaines de nos idées.

Translate

Enter English phrase:

English to French a French to English:

Other translations to English

German ⊕ Polish ⊕ Russian ⊕ Italian ⊕ Spanish Danish Japanese Dutch Norwegian Chinese Finnish Greek Turkish:

Audio



Automated conversion of books to Web site **ENGLISH**

10.00 11.00 11.00 13.00 15.00 17.00 20.00 21.00 24.00 26.00 26.00 27.00

Box Plot Example



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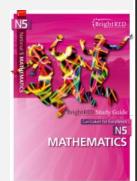


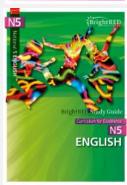
Evaluation of On-line Material

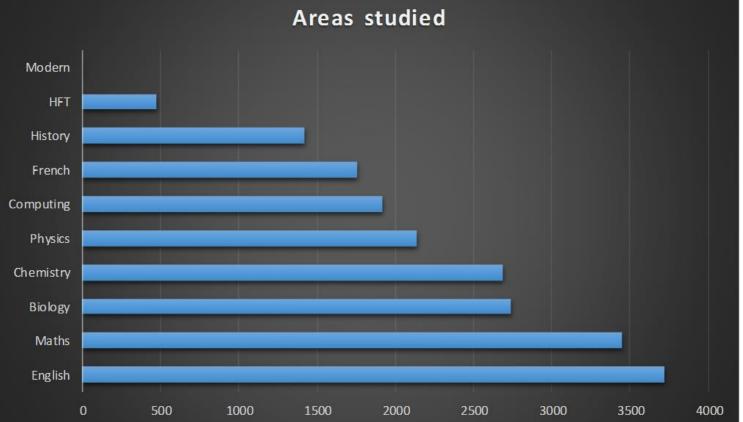






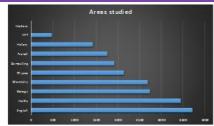


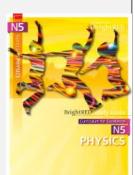


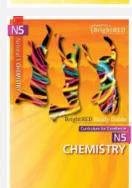


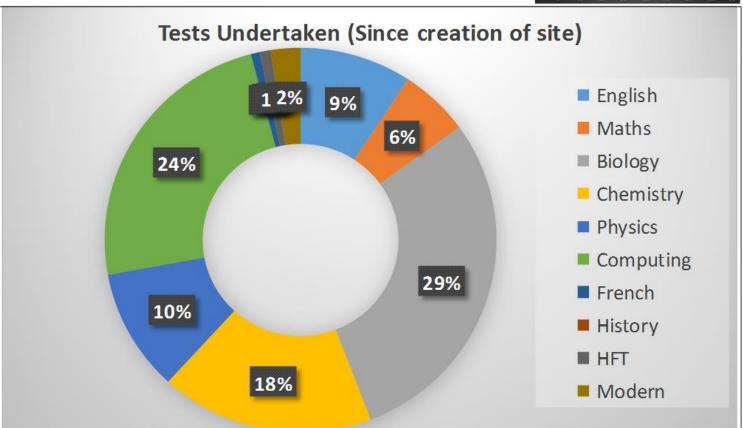
Tests Undertaken





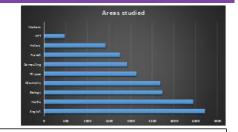






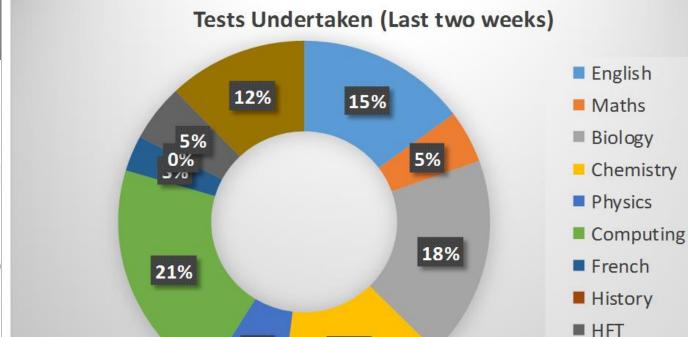


Tests Undertaken (Last two weeks)



Modern





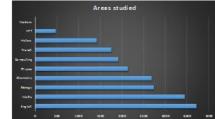
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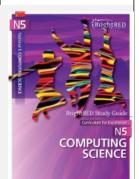
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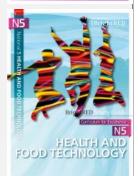


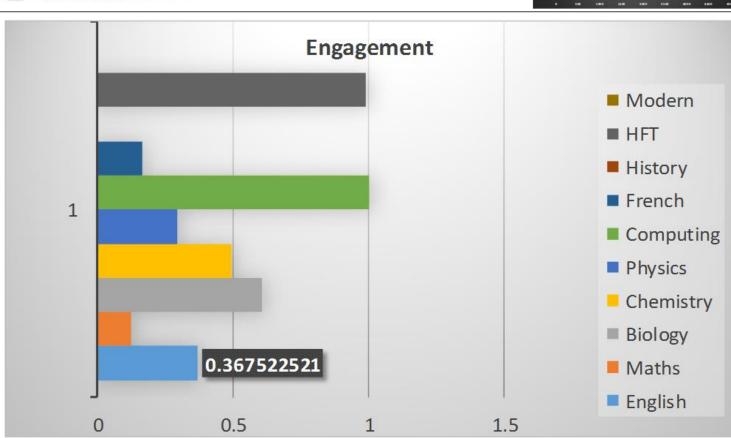


Engagement (Last two weeks)





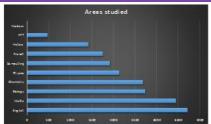


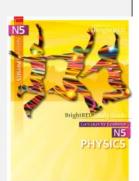


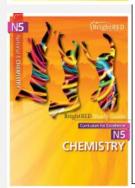


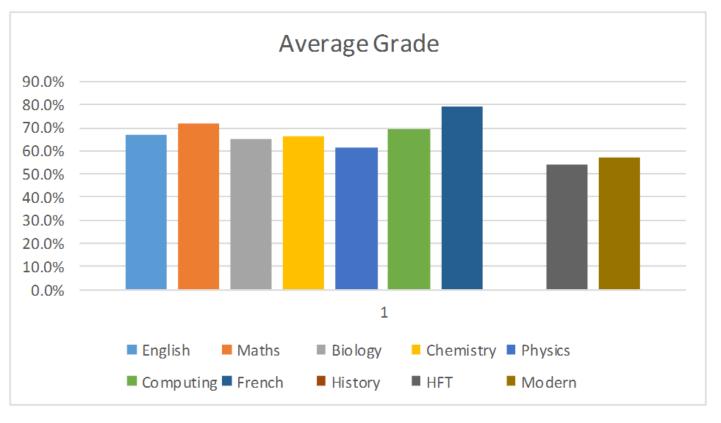






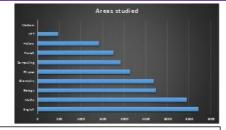




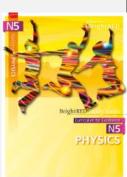


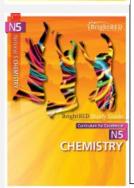


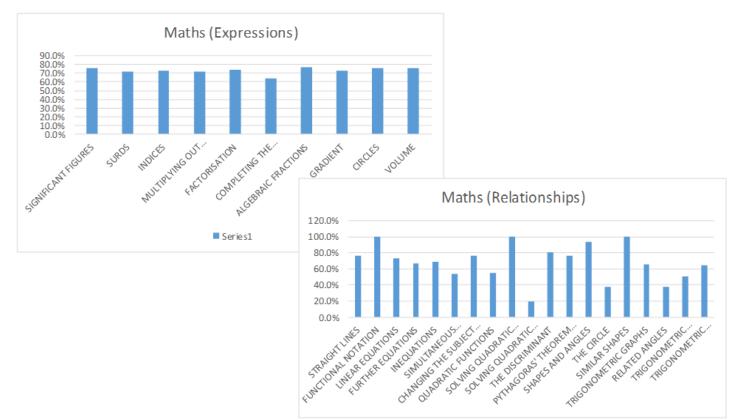
Scores for subjects (Maths)





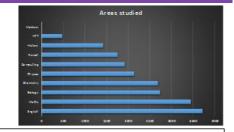




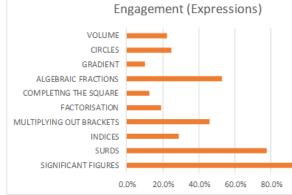


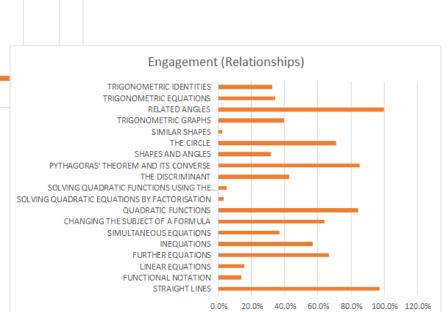


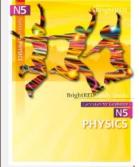
Engagement (Maths)

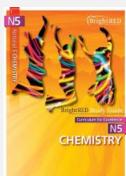






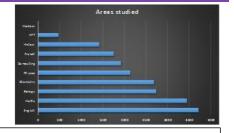






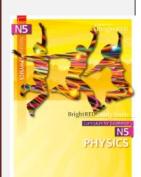


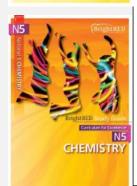
The most difficult question ...

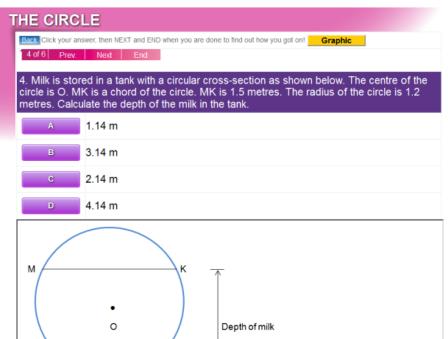














N5 Integration

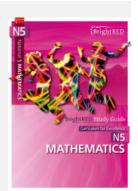
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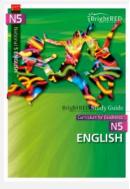
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Conclusions







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Back Home

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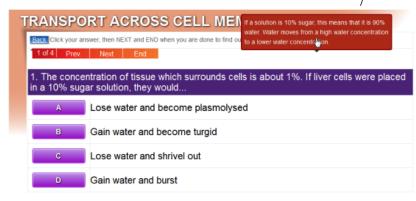
Increase in test-based learning

To see more about basic atomic structure, click on this link and watch the clip - Link



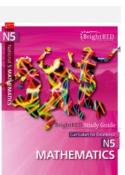
Increasing Integration with Youtube

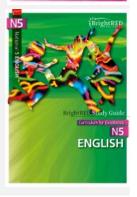
Increase enforcing feedback during and after tests



ESCAL My results				
Score: 25% Fairly good	l.			
Correct				
Question	Your Answer	Feedback		
The following graph shows the concentration of ions in a pondweed and the surrounding pond water. Which of the ions were taken into the plant by active transport?	Polassium and chloride			
Incorrect				
	Your Answer	Feedback		
Incorrect Question Which pair of structures numbered in the diagram are correctly identified?	Your Answer Phosphotoss - 3, Protein - 7	Feedback		
Question: Which pair of structures numbered in the		Feedback		

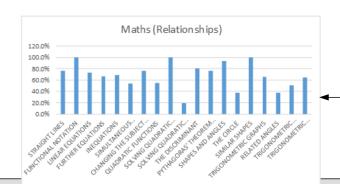




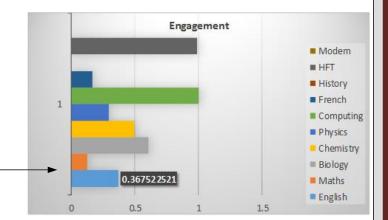


Interguartile Range and Boxplots Calculations Values ou can enter values separated by commas 10 00 11 00 11 00 13 00 15 00 17 00 20.00 21.00 24.00 26.00 26.00 27.00 10,11,11,13,15,17,21,26,26,27,24,20 Upper Quartile (Q-) Examples terquartile range + 12345678 Median=45 Try Box Plot Example 1.09.1.20.1.05.1.43.1.00.1.15.1.25.1.03.1.19.1.36 18,23,23,26,32,36,45,56,70. Median (Q₂)=32, Q₁=46, Q₂=51. 20,25,18,26,21,35,30,26,25,29,31,18,35,30,27. Median(Q₂)=26 Q1=21, Q2=30, Try

Knowledge-based subjects have more engagement on testing.
Strong: Modern Studies, HFT,
Computing, Biology, and Chemistry.
Weaker: Maths, Physics.



Supportive environments with solutions to problems



Engagement and grades can vary widely in subjects

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