N5 Integration

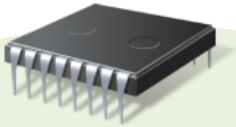
Motivation: Creating engaging and stimulating Web based material

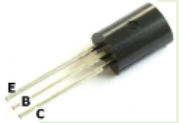
- Blended Learning.
- Cloud Integration.
- Stimulating material.
- Evaluation of On-line Material.

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



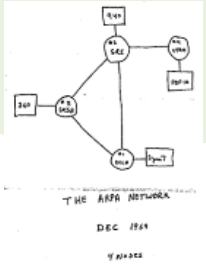


Transistor

Microprocessor

The Cloud

The Internet



The Personal Computer

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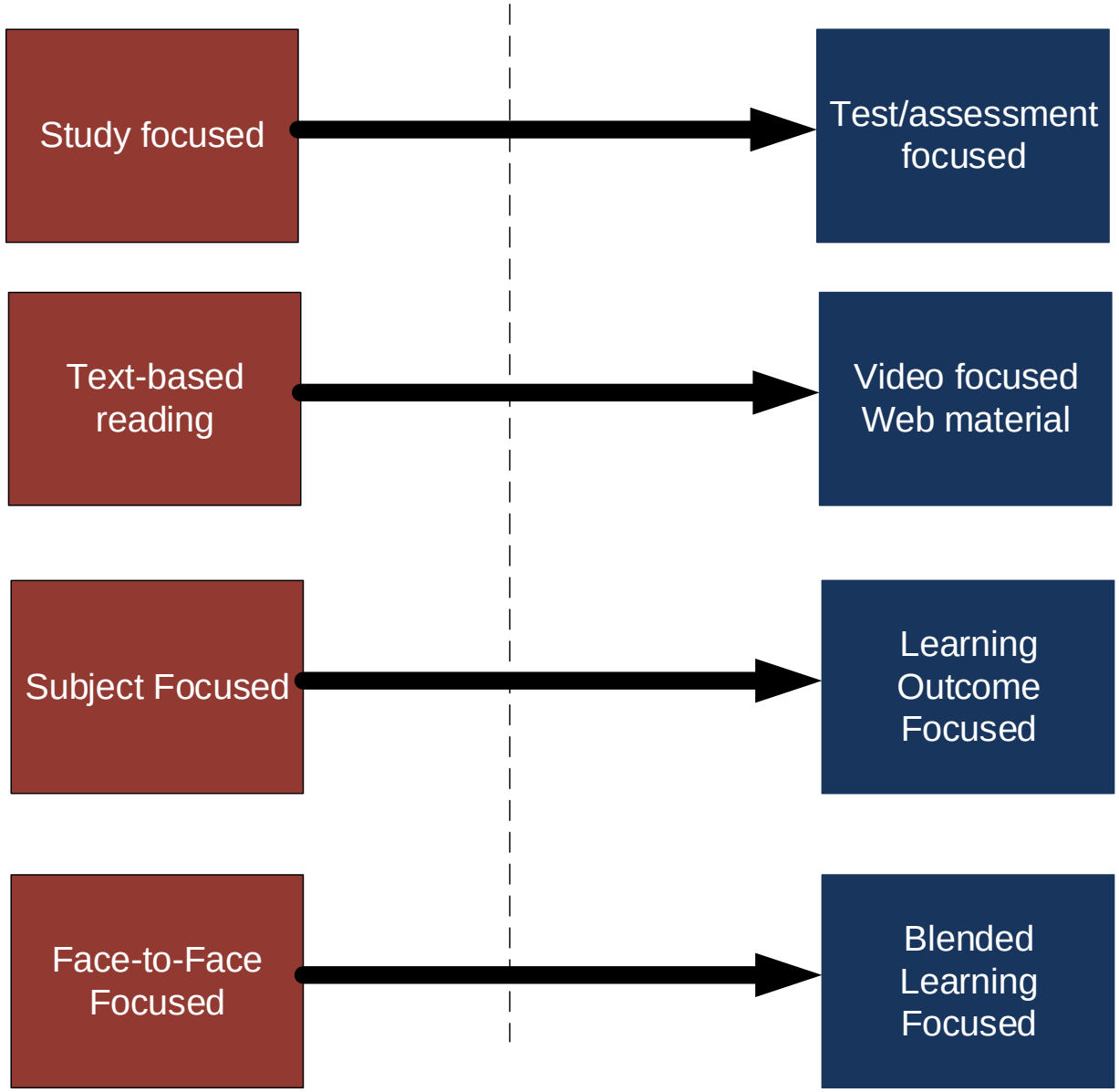
Cloud Integration

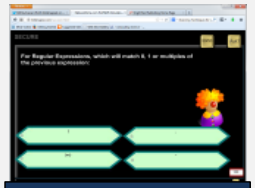

Edinburgh Napier
UNIVERSITY
Study focused
Test/assessment focused
Text-based reading
Video focused Web material
Subject Focused
Learning Outcome Focused
Face-to-Face Focused
Blended Learning Focused

BrightRED PUBLISHING

Edinburgh Napier UNIVERSITY

Twitter

On-line Lectures

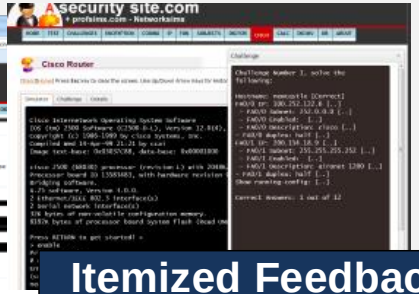


Fun Tests

Cloud Storage

On-line tests

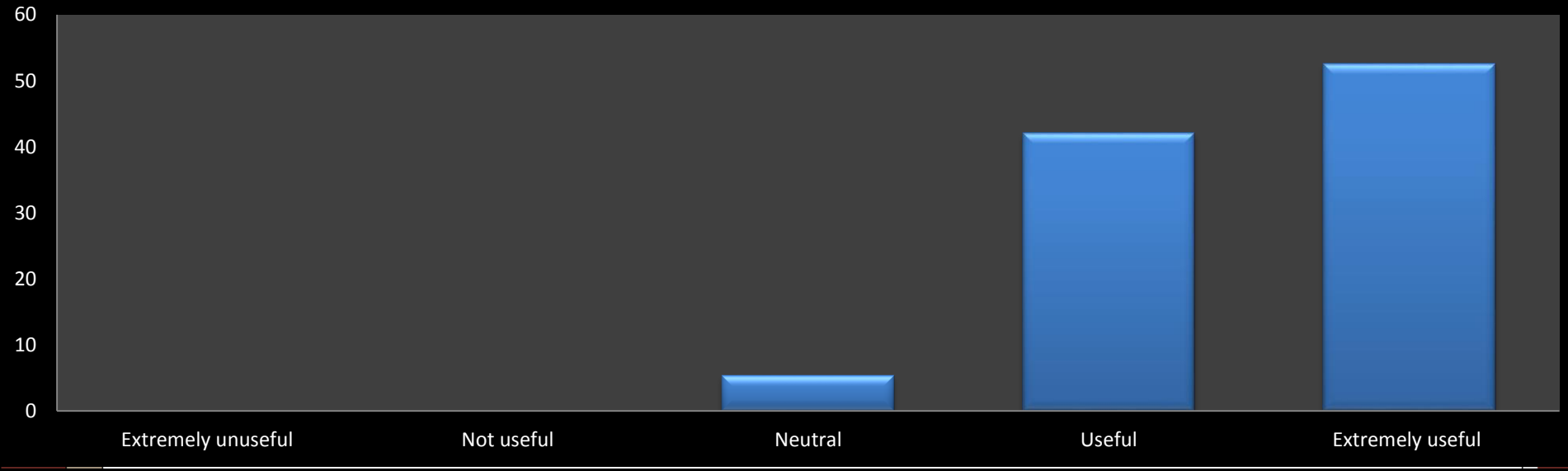
Cloud-based teaching



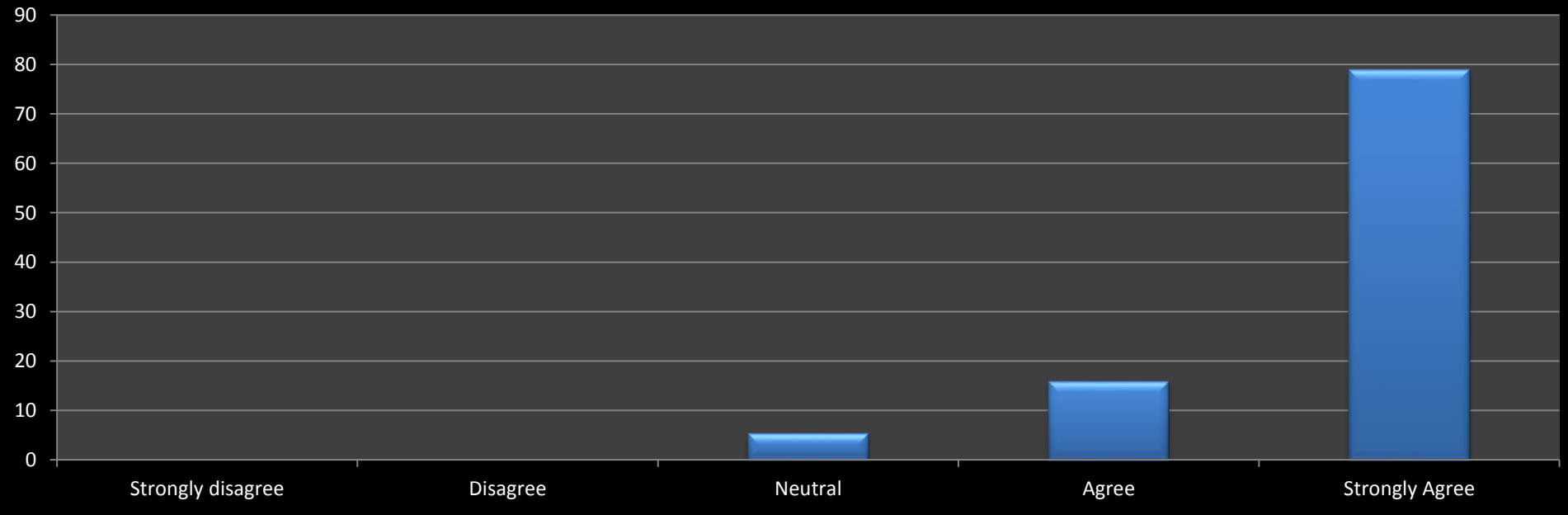
Itemized Feedback

Ever changing challenges

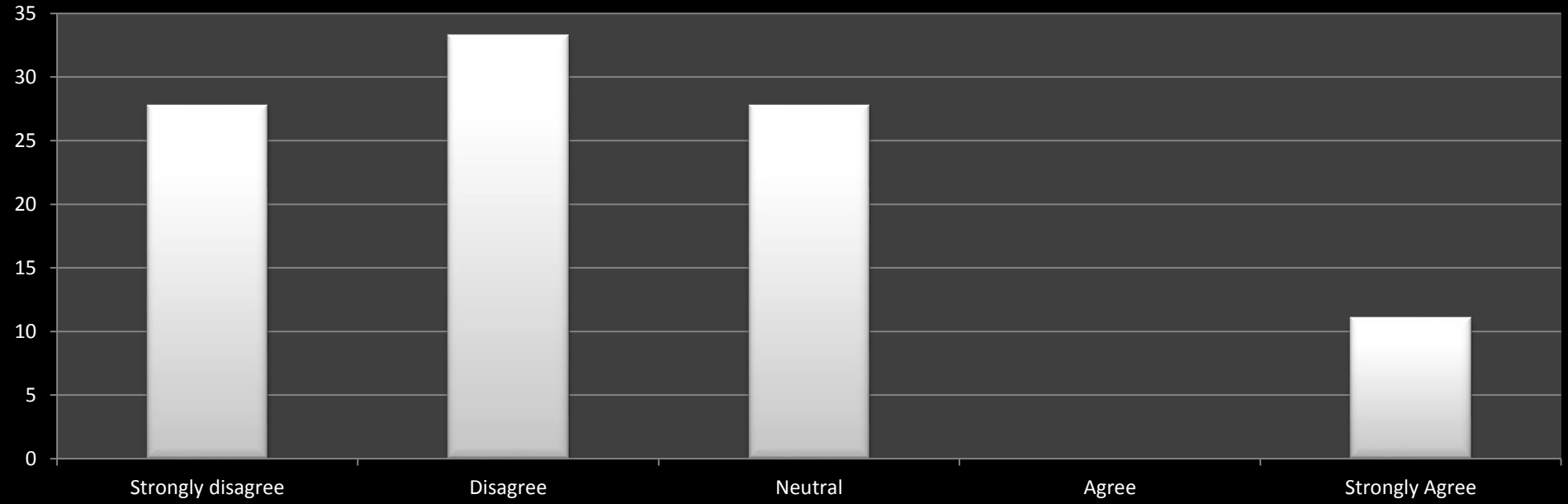
1. How useful is/were the on-line video versions of the lectures for your studies



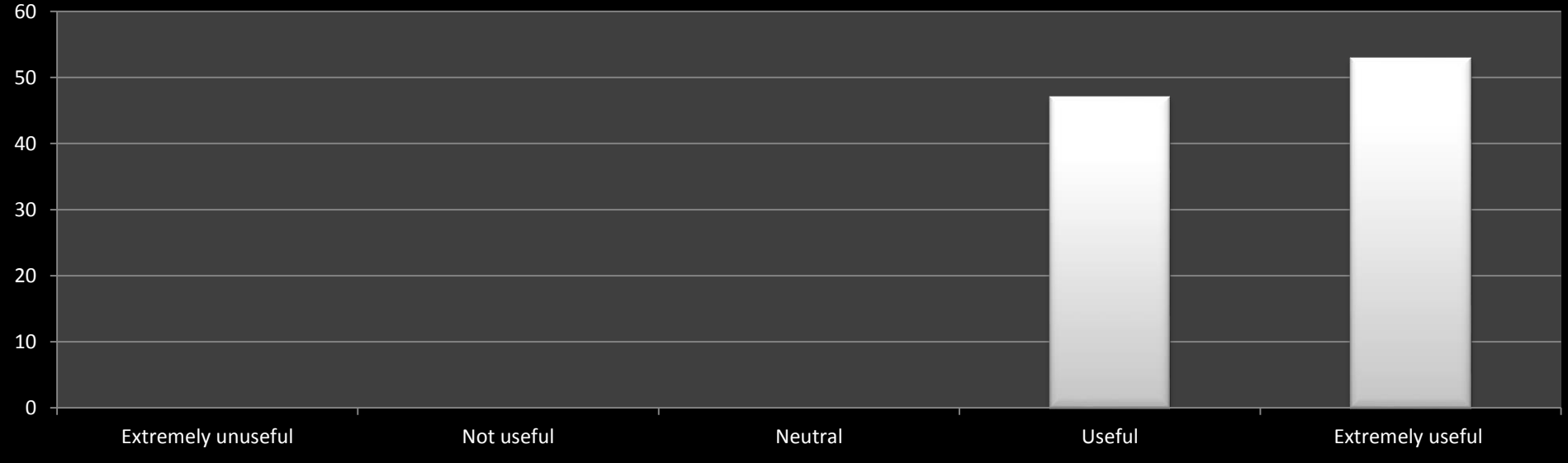
2. Do you think that all modules should have associated on-line lectures?



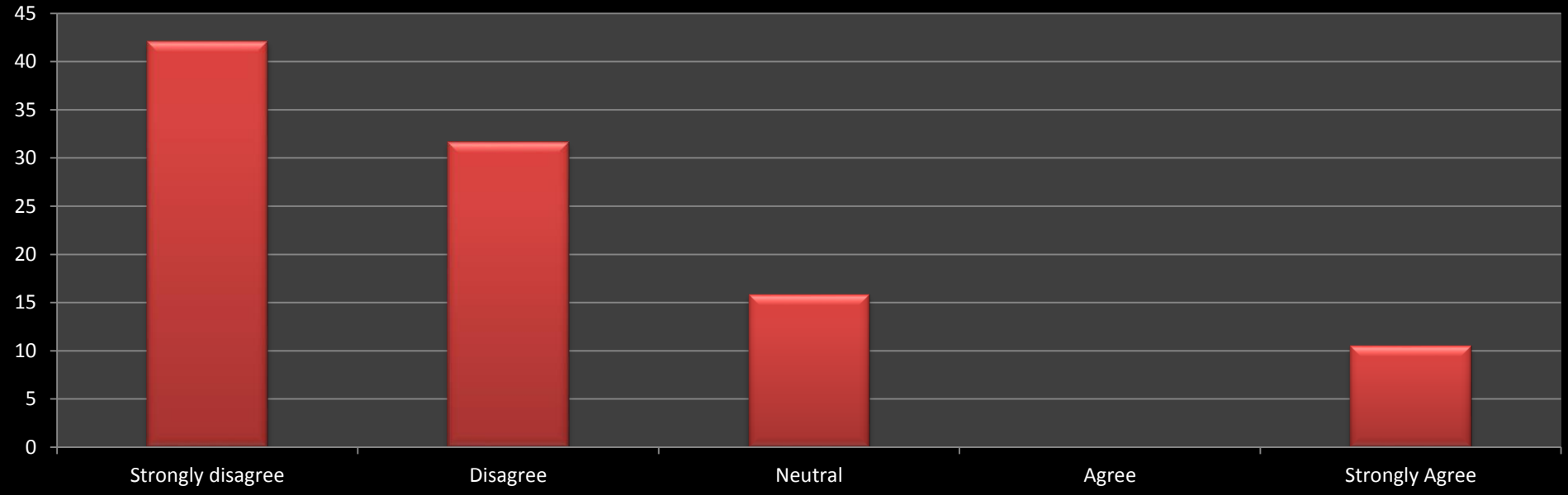
3. Should on-line lectures replace traditional lectures?



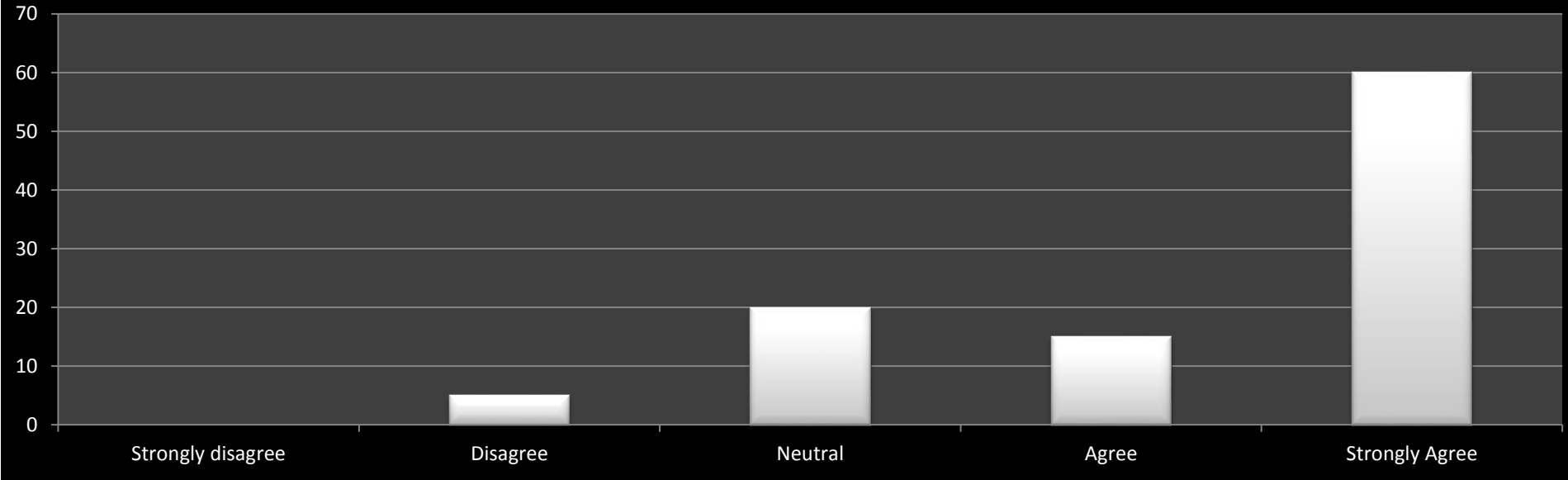
4. For guidance in performing practical work in the lab, how useful are on-line step-by-step video captures of the lab?



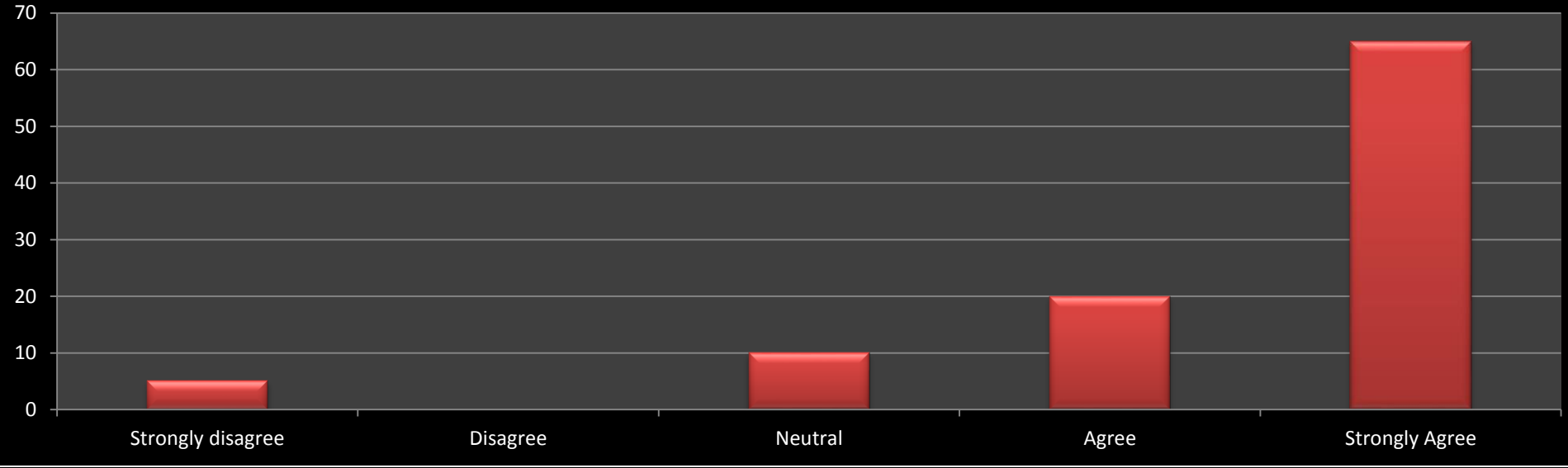
10. On-line lectures should replace traditional lectures.



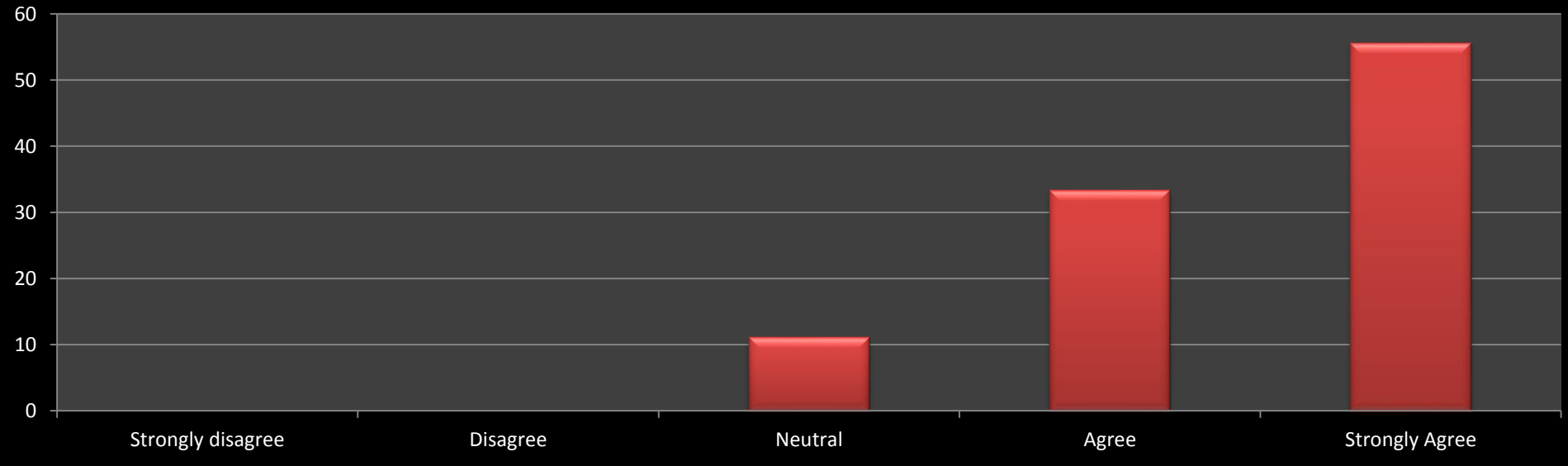
15. I believe the on-line lectures enhance the reputation of my programme/ university/ School.



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

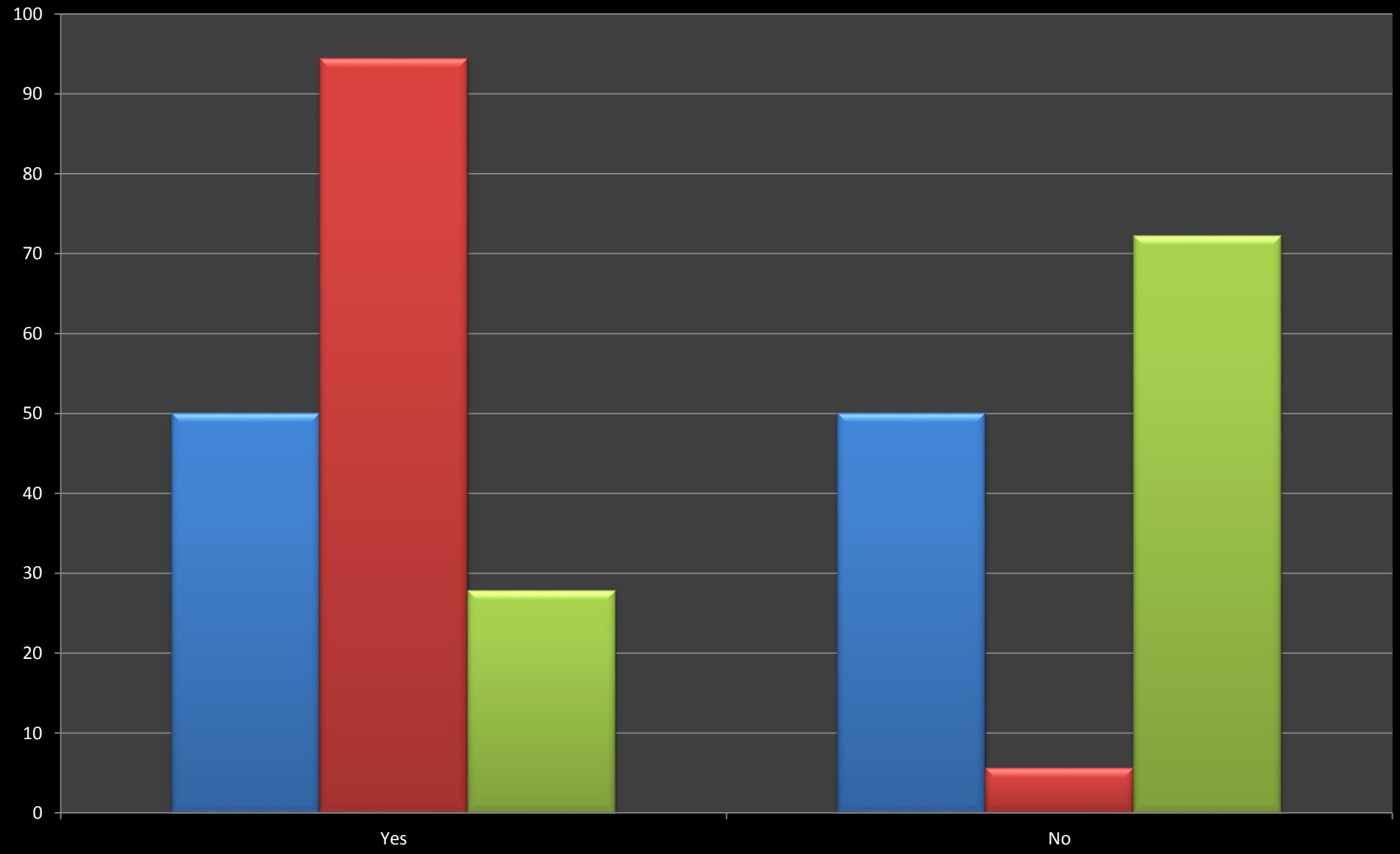


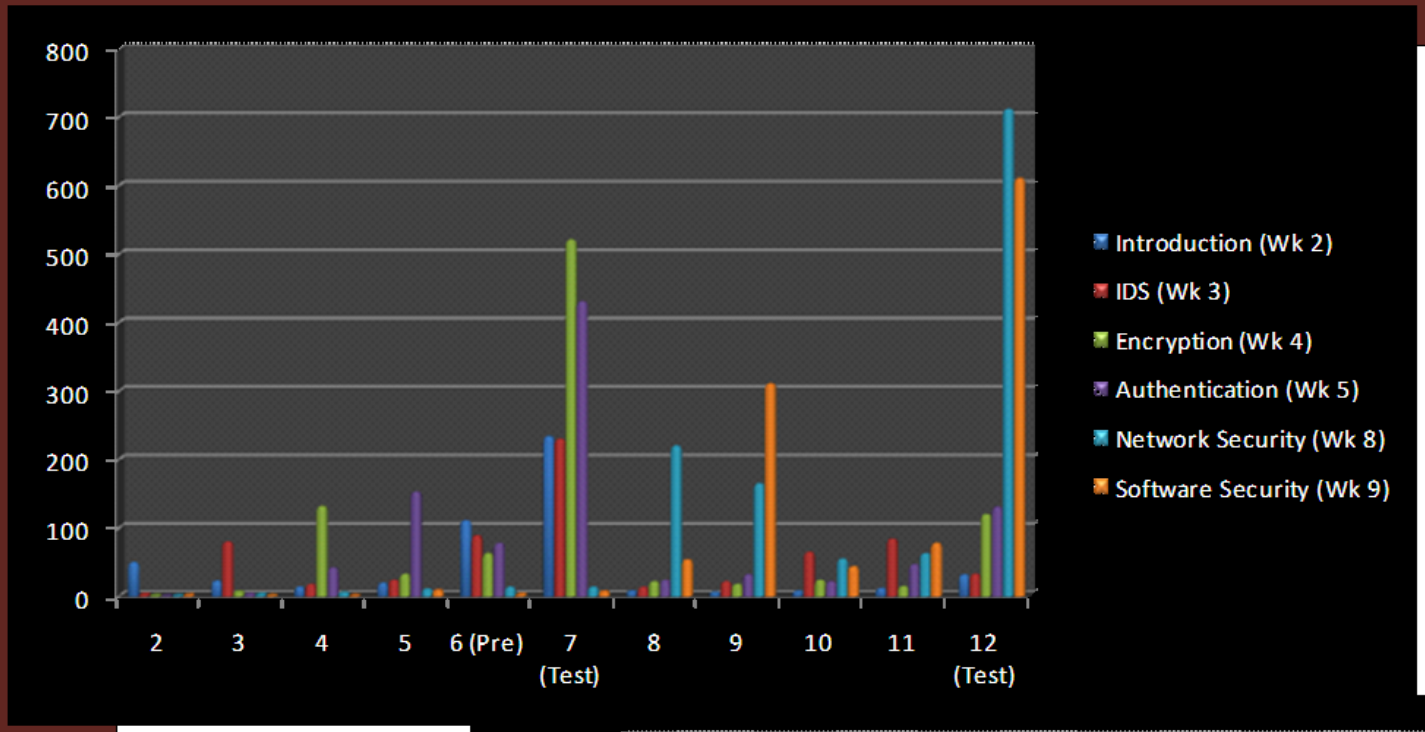
14. I mainly use the on-line lectures to catch-up on material before an assessment.

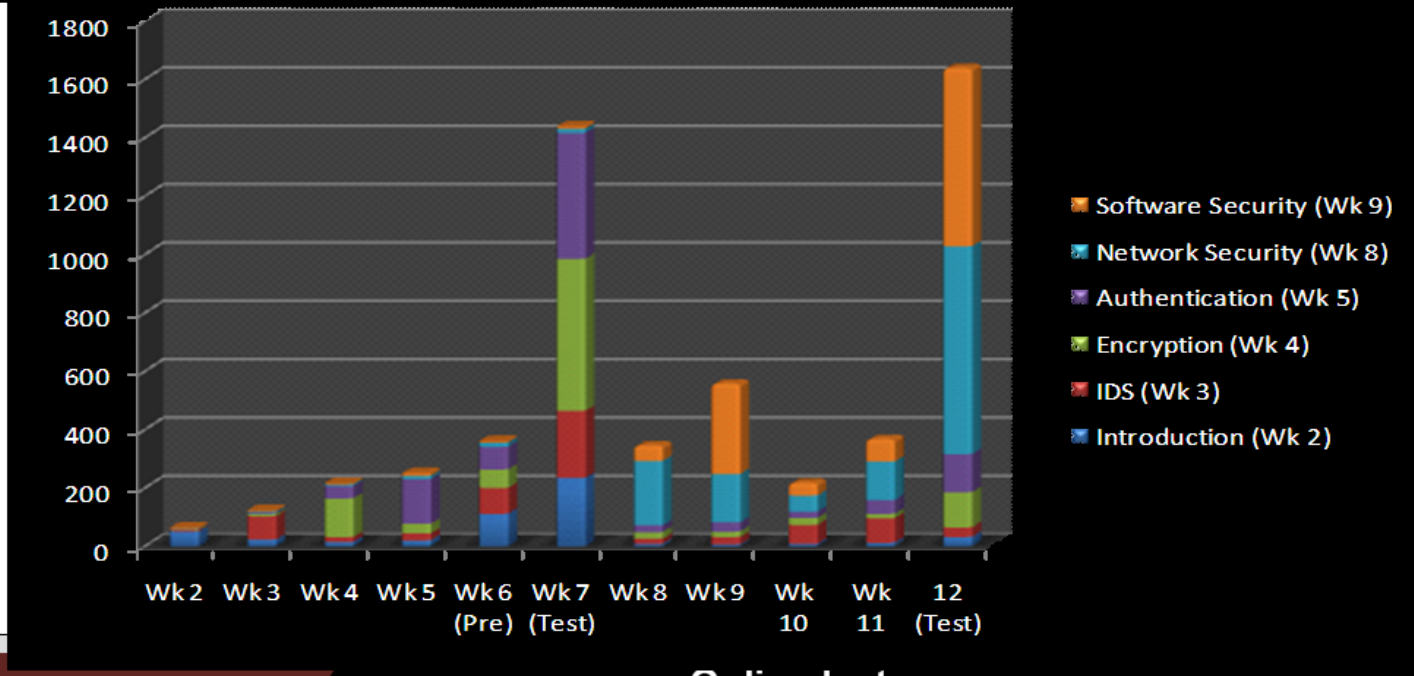


25. Did you find that you use the on-line lecture to:

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

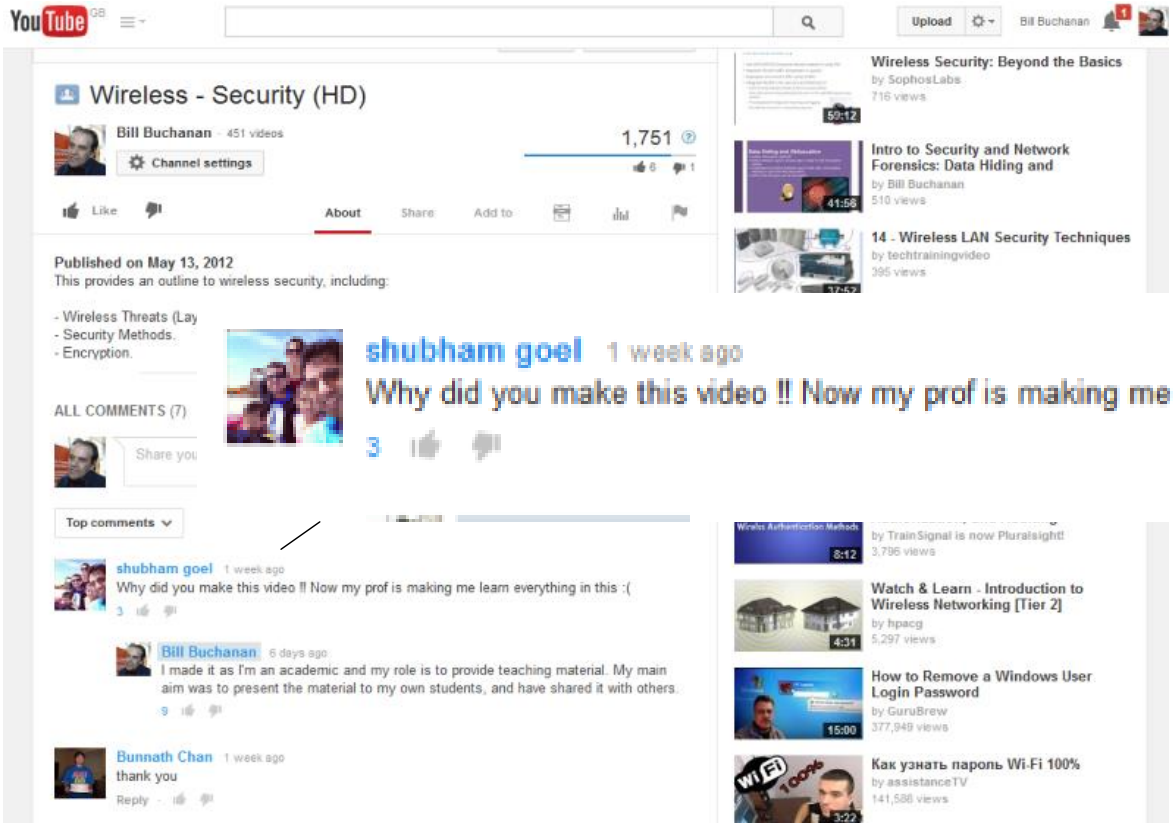


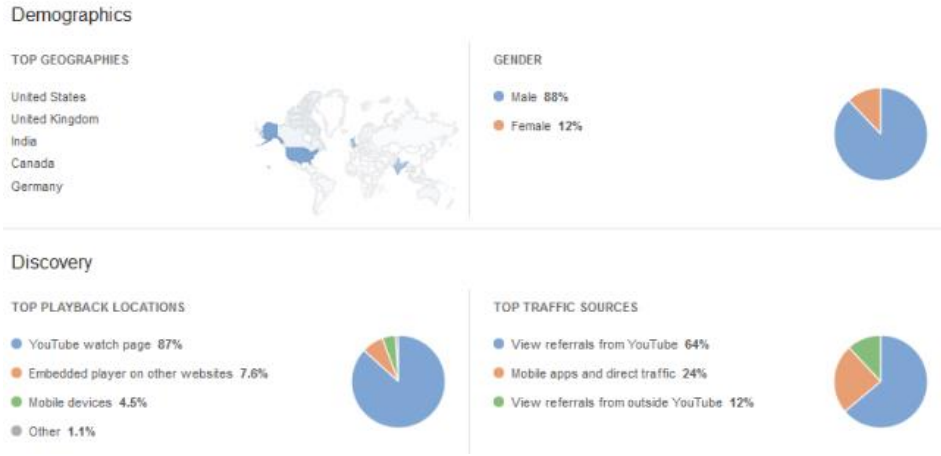




Online lecture usage

Edinburgh Napier UNIVERSITY





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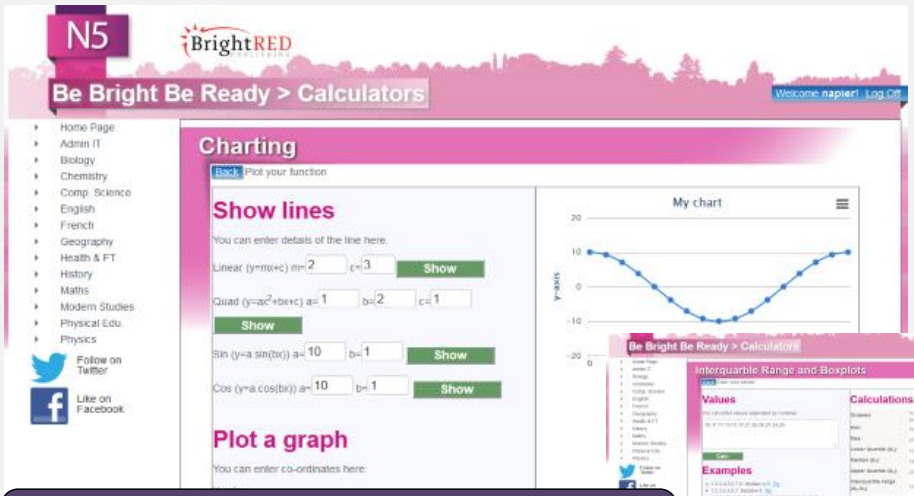
Stimulating Material

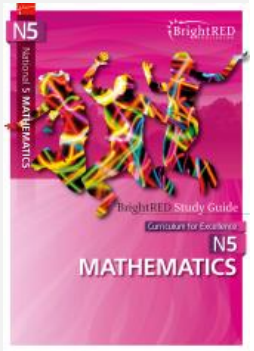
Responsive Designs

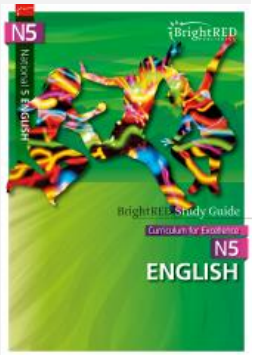
The Cloud can enhance teaching … but good teachers are the key!

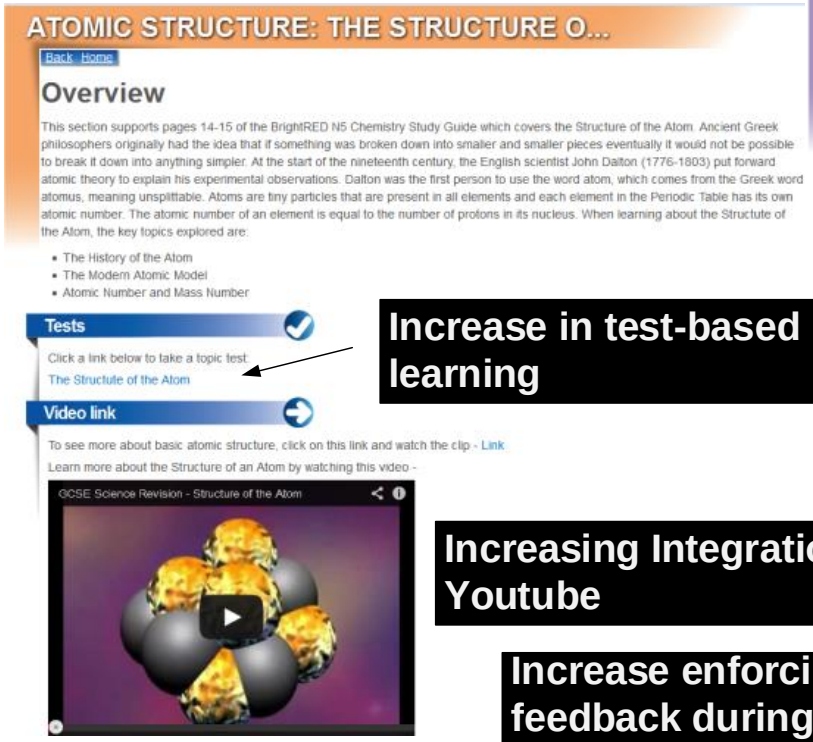


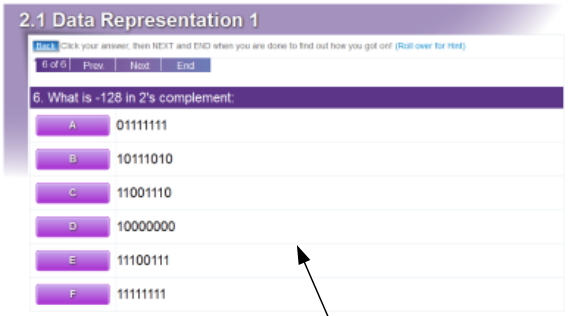
Focusing on supporting deep learning

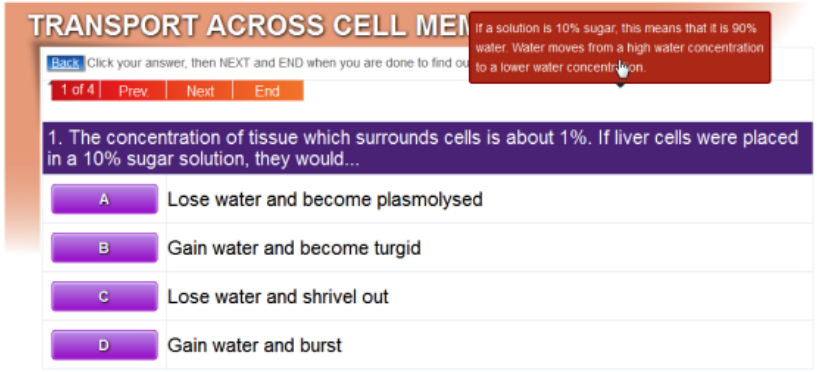
Allow for many ways of learning and delivery mechanisms

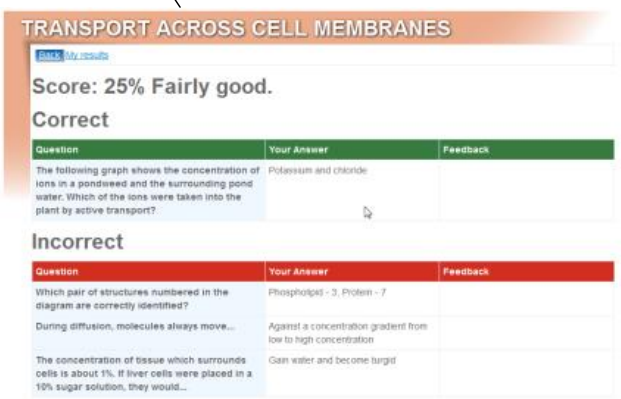










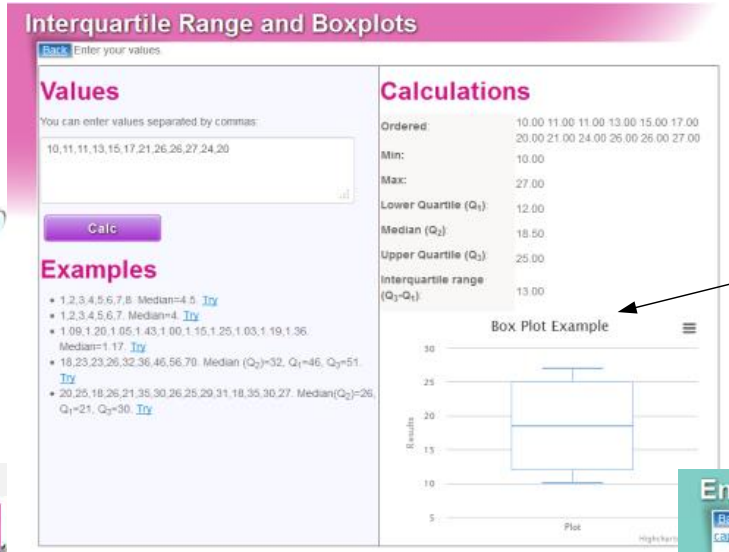


Increase in test-based learning

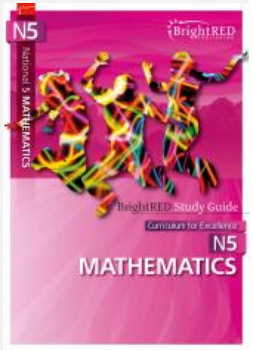
Ever-changing “infinite” tests

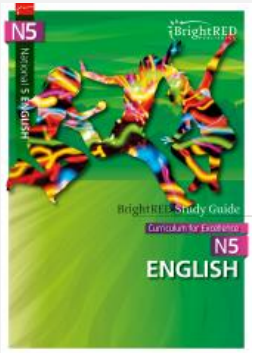
Increasing Integration with Youtube

Increase enforcing feedback during and after tests

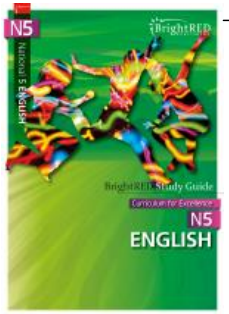


Supportive environments with solutions to problems





Integration of advanced Web services (eg Language translator)



Automated conversion of books to Web site

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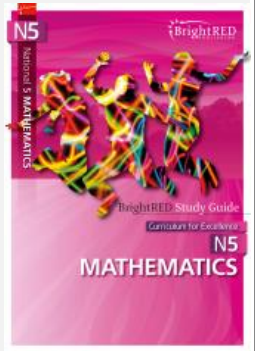
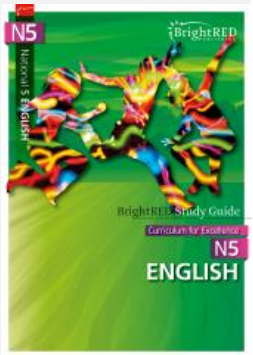
Evaluation of On-line Material

Study Areas

N5
BrightRED
Be Bright Be Ready


N5
BrightRED
National 5 MATHEMATICS
BrightRED Study Guide
Curriculum for Excellence
N5
MATHEMATICS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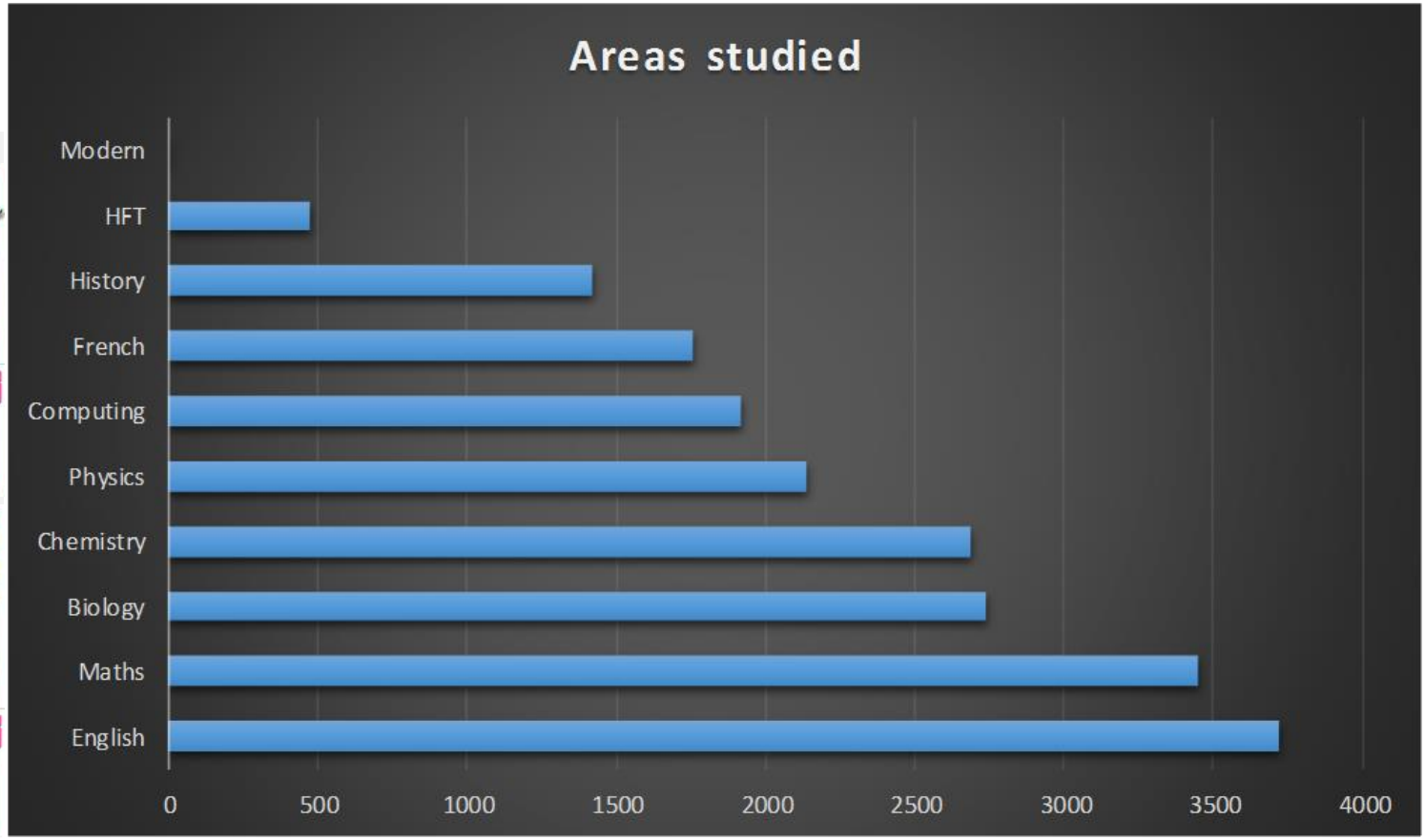
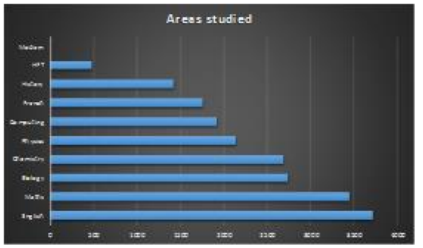
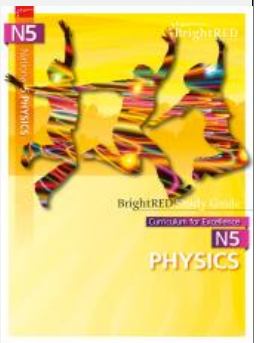
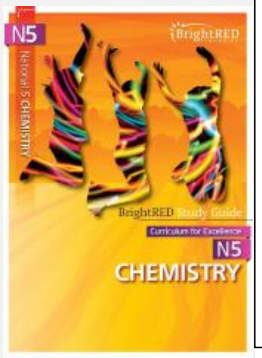
BrightRED Study Guide
Curriculum for Excellence
N5
ENGLISH

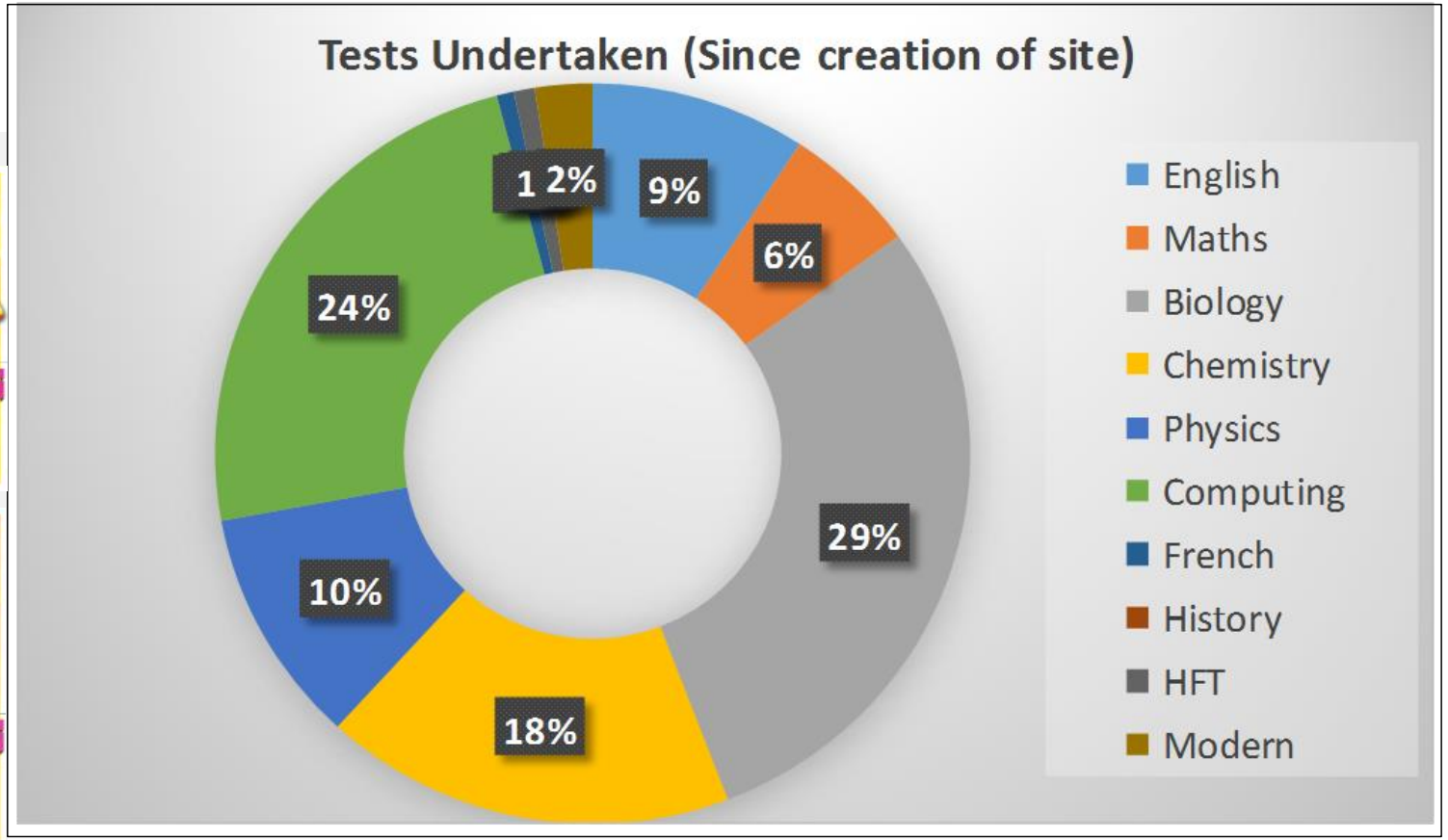

Areas studied
Modern
HFT
History
French
Computing
Physics
Chemistry
Biology
Maths
English
0
500
1000
1500
2000
2500
3000
3500
4000

Tests Undertaken

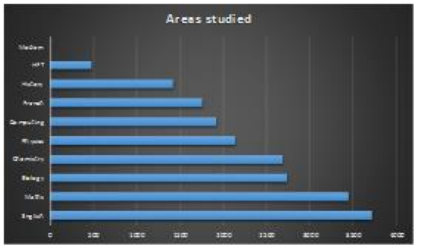


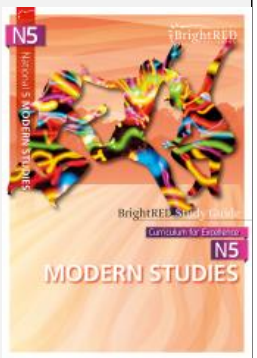


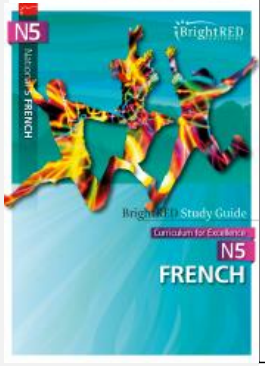


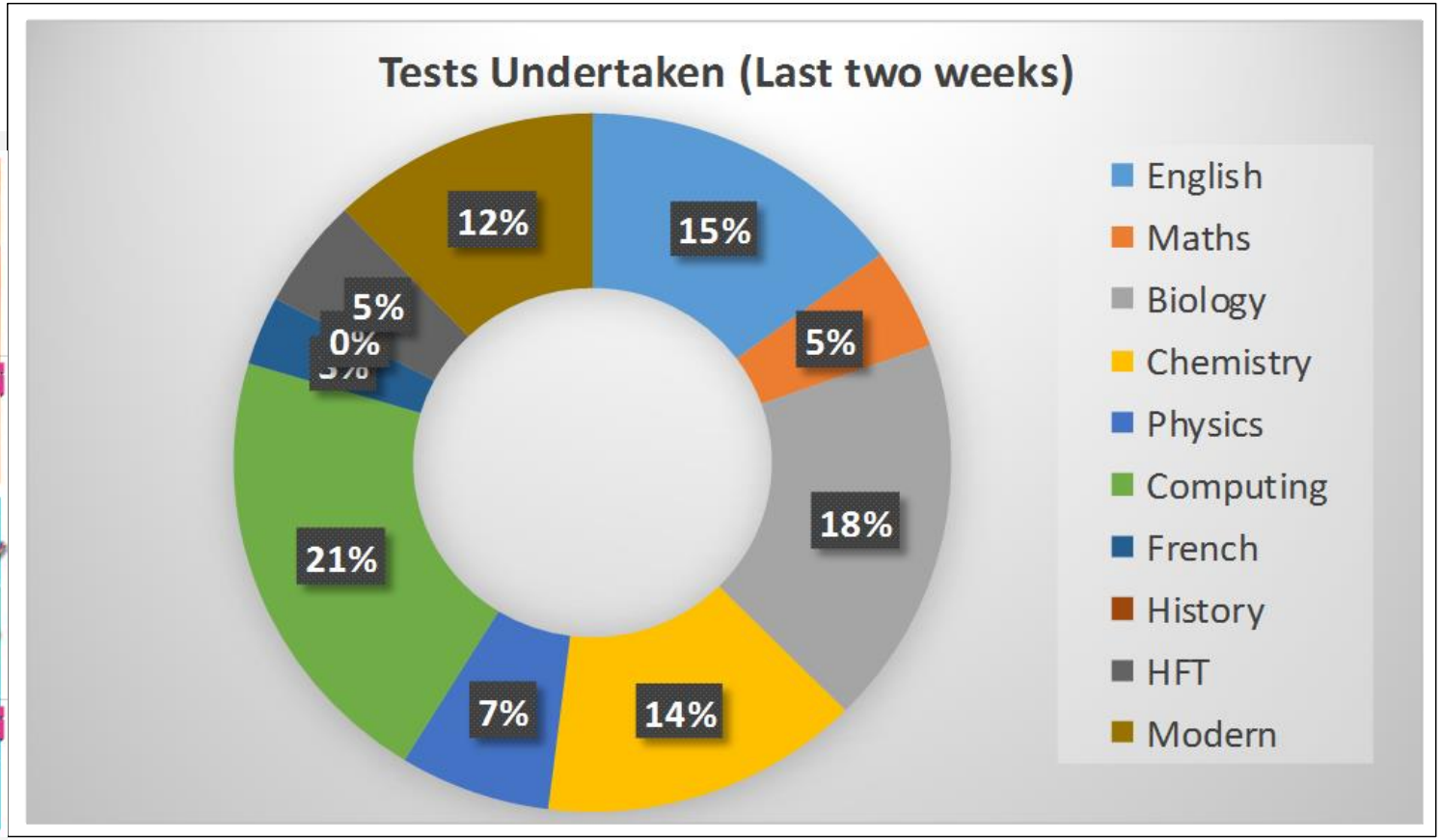


Tests Undertaken (Last two weeks)

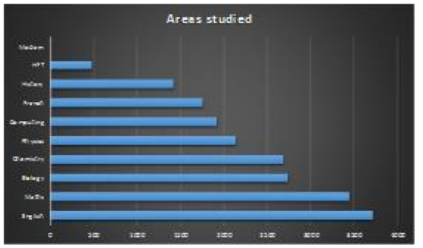


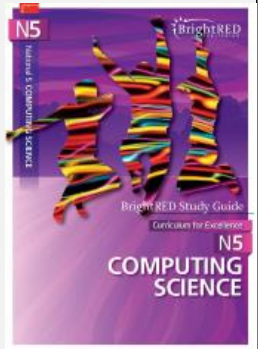


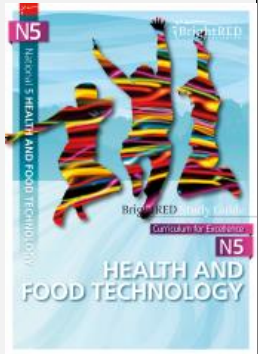


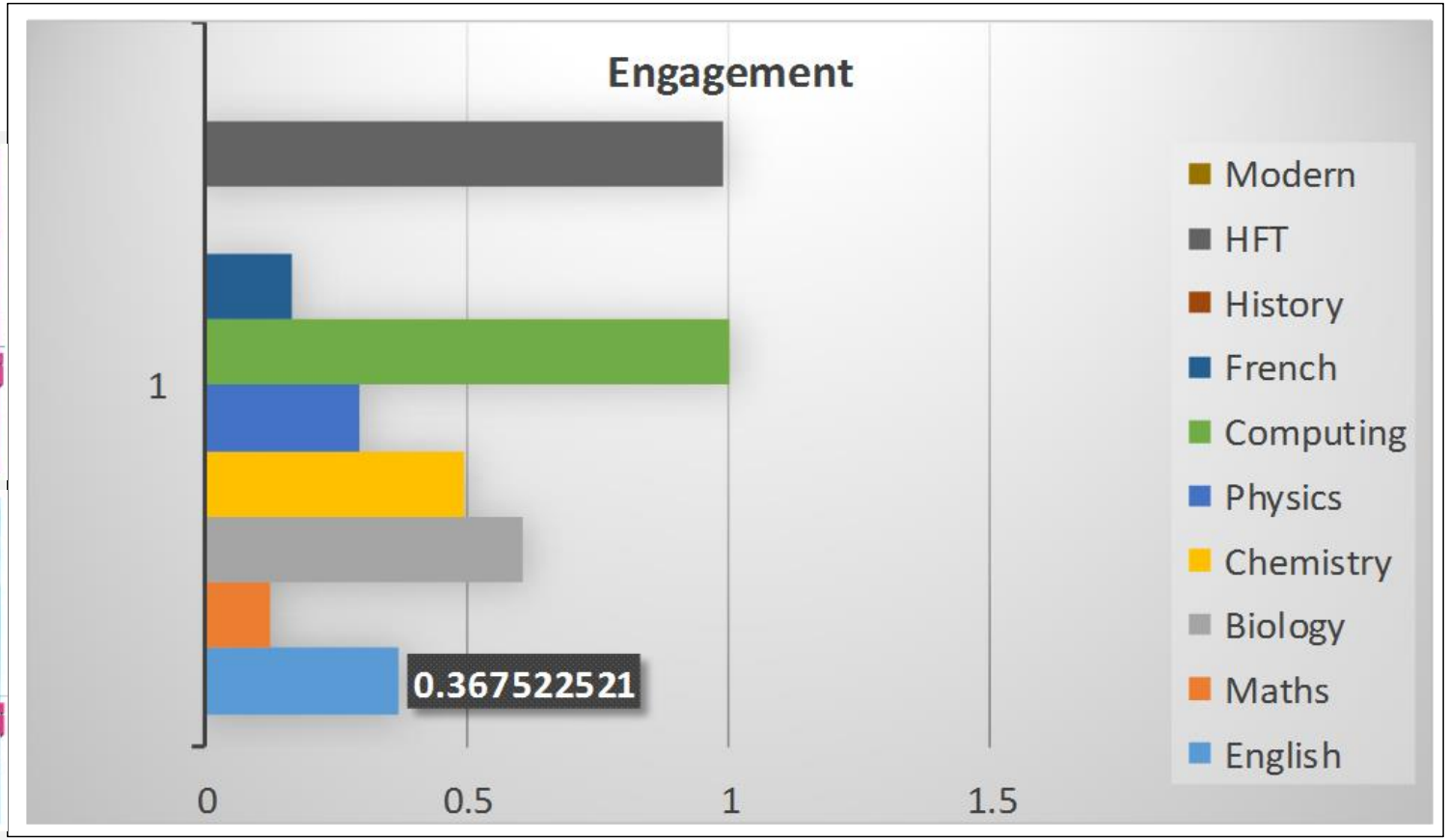


Engagement (Last two weeks)

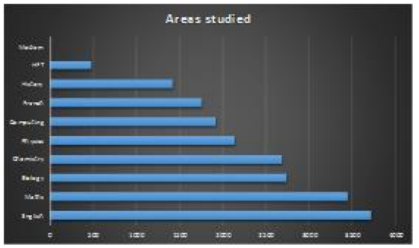


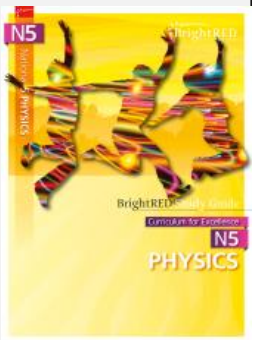


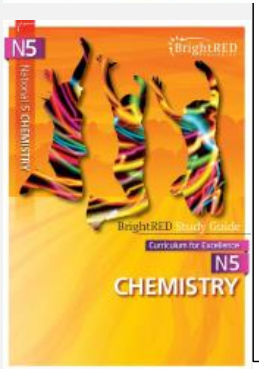


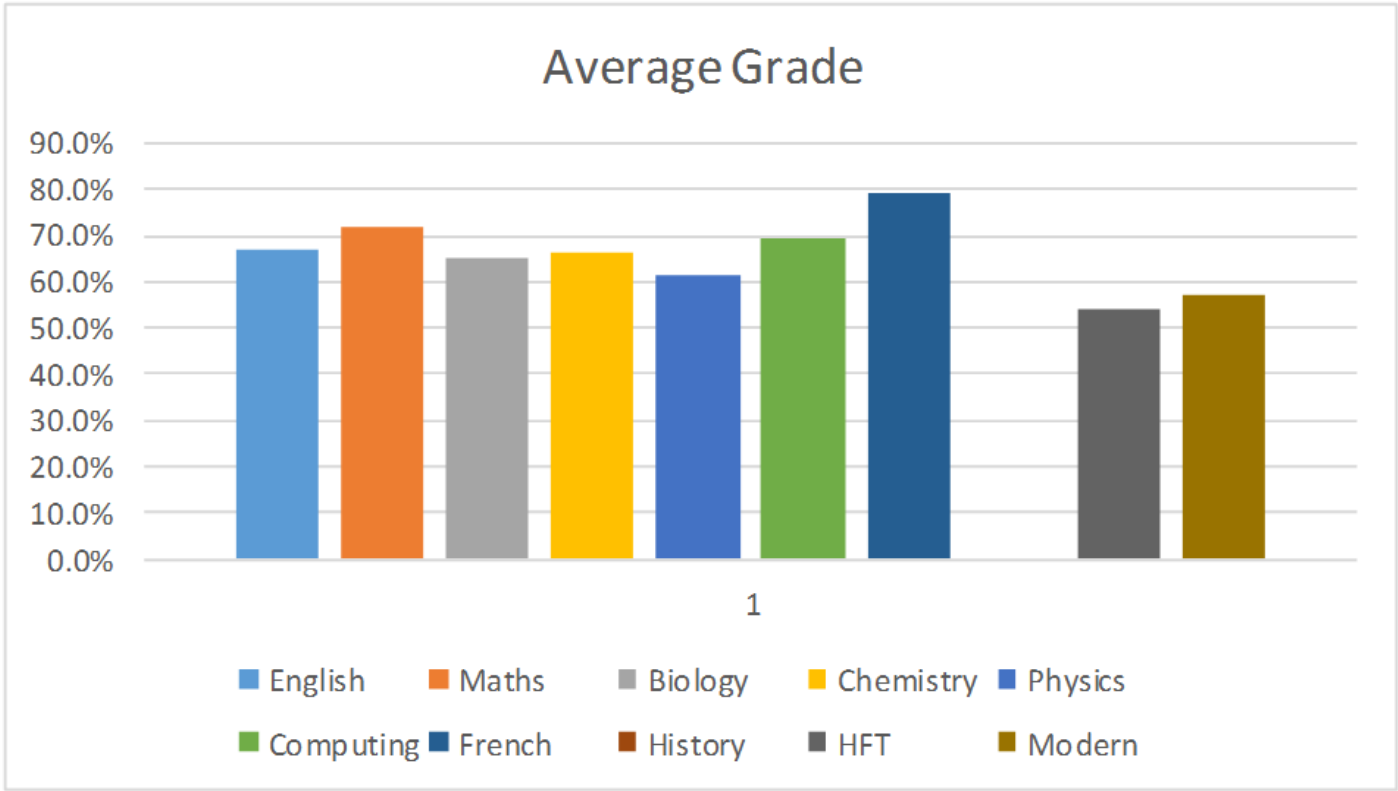


Average Grades

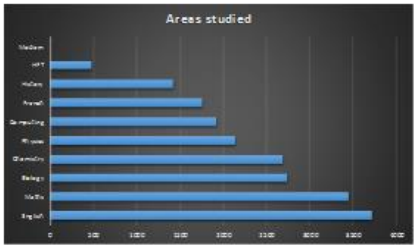


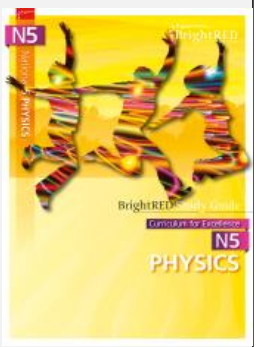


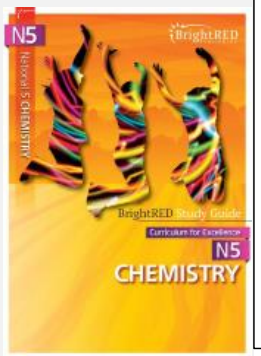


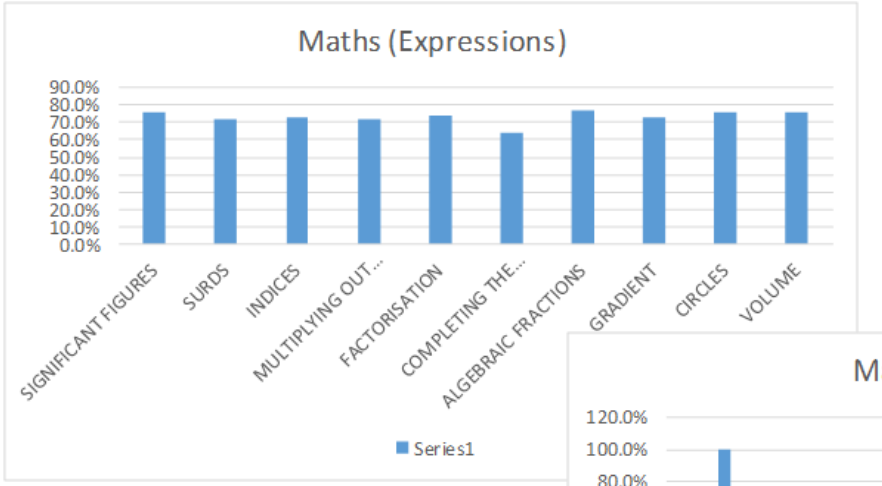


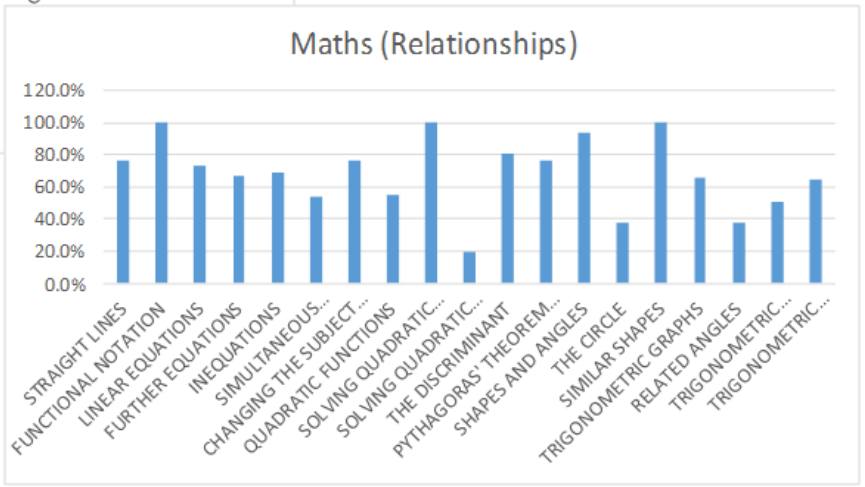
Scores for subjects (Maths)



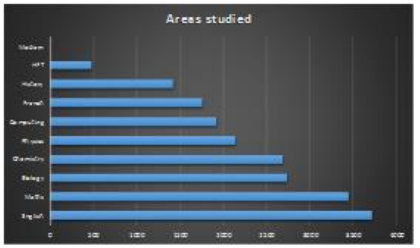


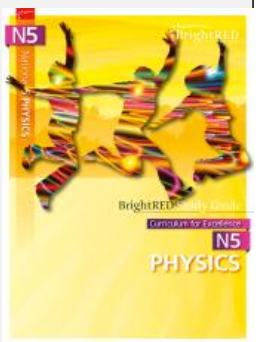


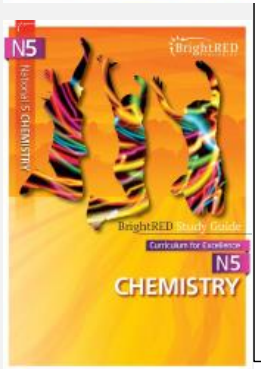


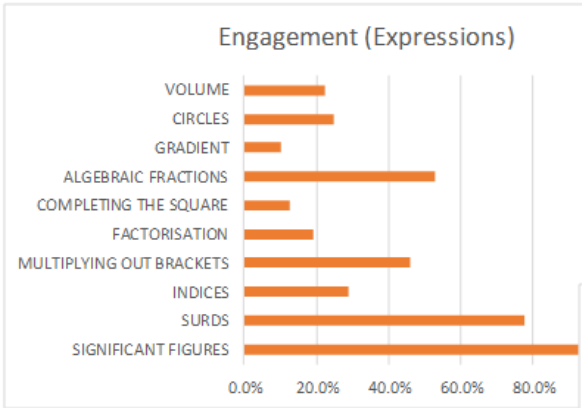


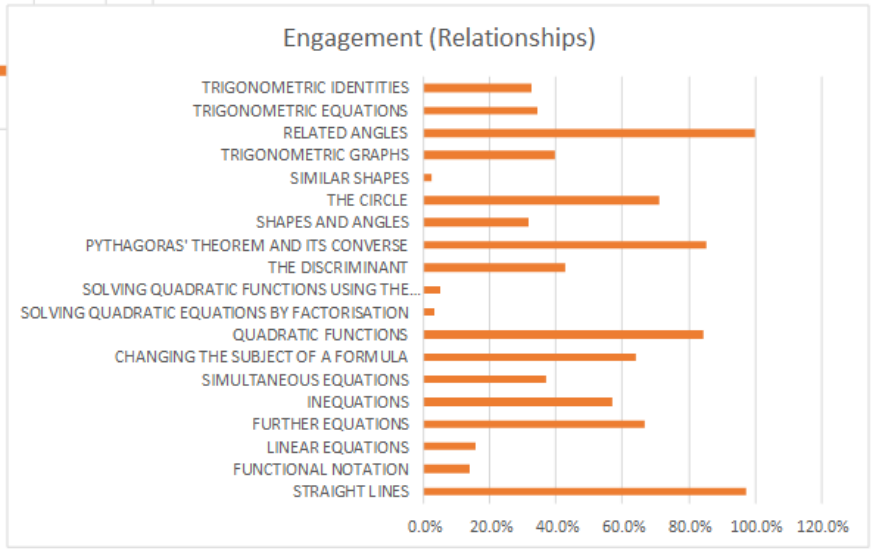
Engagement (Maths)



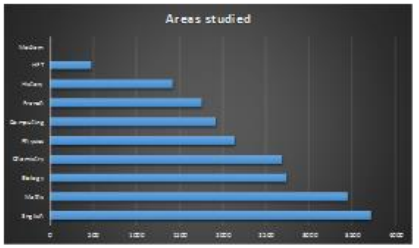


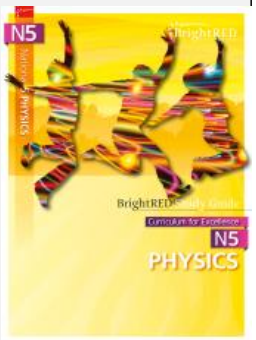


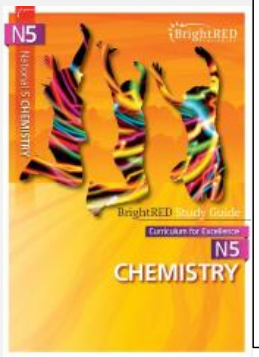




The most difficult question …







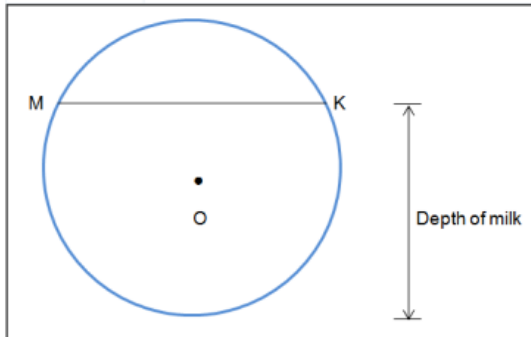
THE CIRCLE

Back Click your answer, then NEXT and END when you are done to find out how you got on! Graphic

4 of 6 | Prev. | Next | End

4. Milk is stored in a tank with a circular cross-section as shown below. The centre of the circle is O. MK is a chord of the circle. MK is 1.5 metres. The radius of the circle is 1.2 metres. Calculate the depth of the milk in the tank.

A	1.14 m
B	3.14 m
C	2.14 m
D	4.14 m

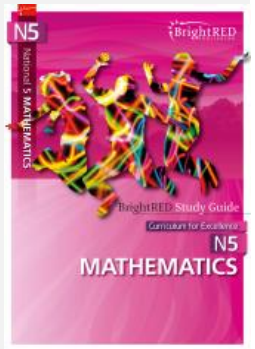


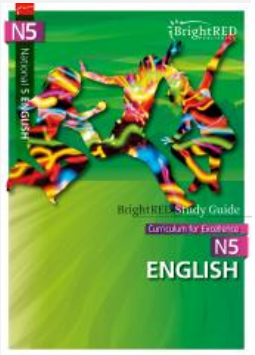
N5 Integration

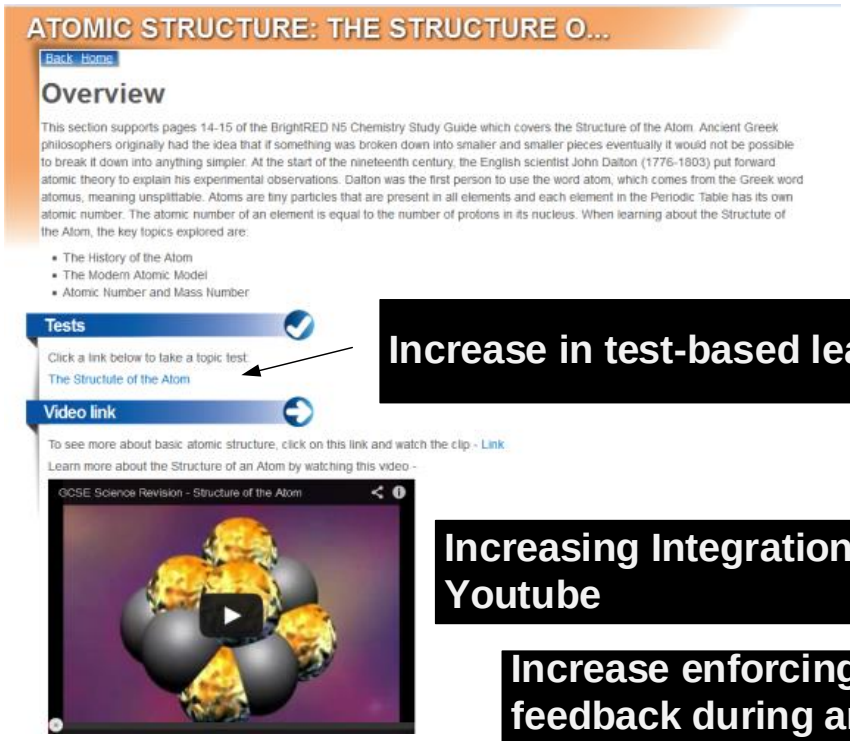
Motivation: Creating engaging and stimulating Web based material

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

Conclusions



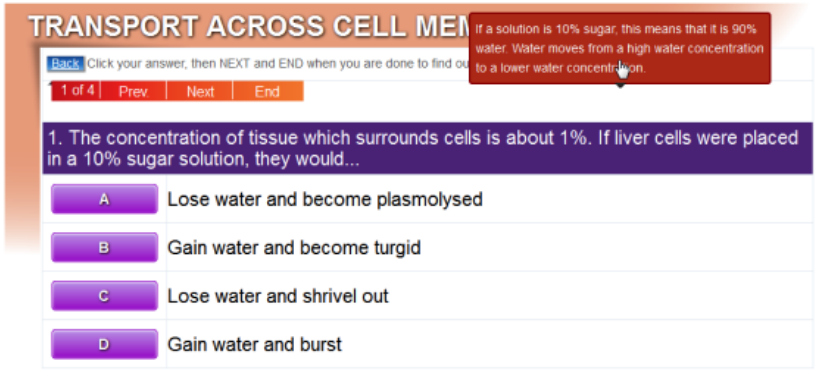


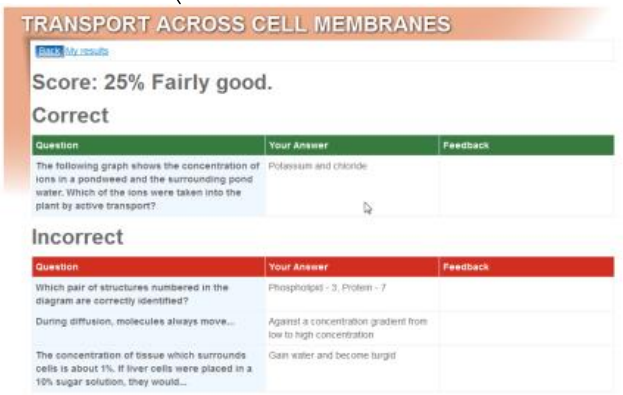


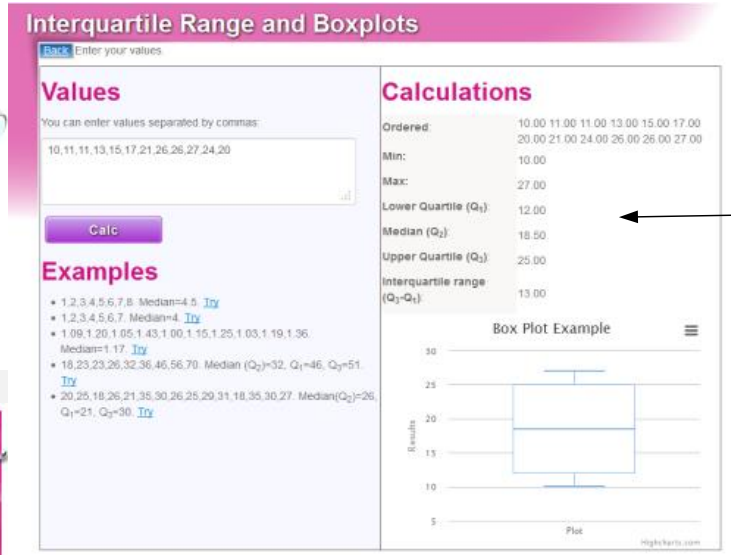
Increase in test-based learning

Increasing Integration with Youtube

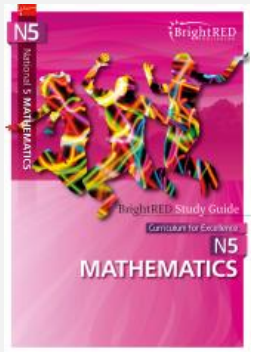
Increase enforcing feedback during and after tests

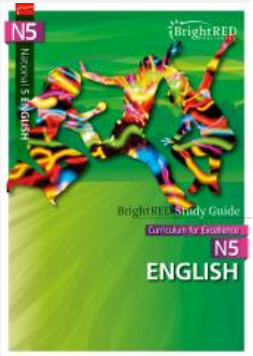




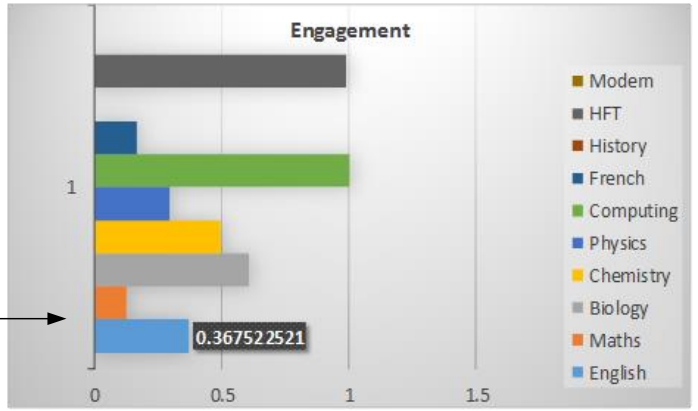


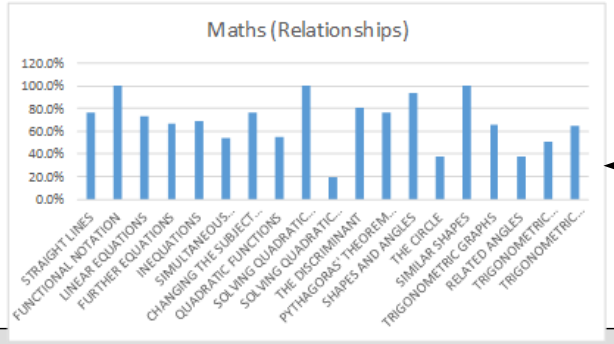
Supportive environments with solutions to problems





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





Engagement and grades can vary widely in subjects

N5 Integration

Motivation: Creating engaging and stimulating Web based material

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

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