KS4 Information evening - Science



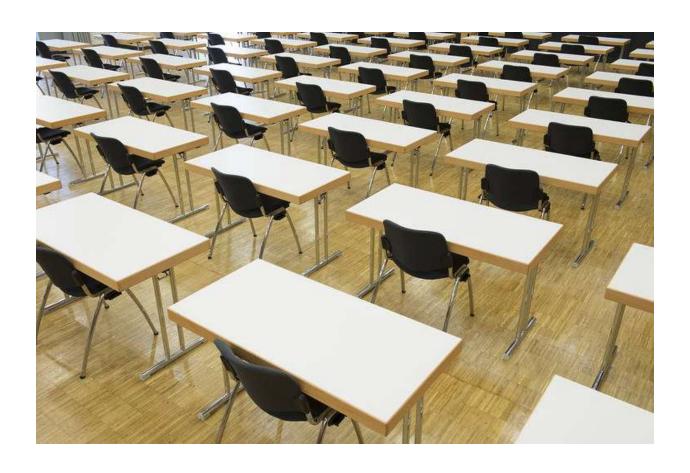
Science Mark



Science Mark is a quality standard designed to recognise and celebrate inspiring practice in secondary and FE science departments across the UK.







OCR Triple Science

There are six Science papers

Breadth in Biology

Breadth in Chemistry

Breadth in Physics

Depth in Biology

Depth in Chemistry

Depth in Physics

Each paper is 1 hour and 45 minutes long

Maths content of Papers

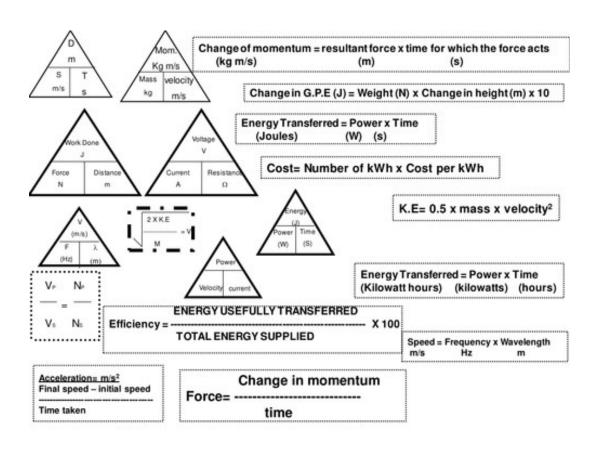
Biology - at least 10%

Chemistry - at least 20%

Physics - at least 30%



Students are required to memorise most of the equations. There are 16-18 equations and students may be asked to rearrange them.

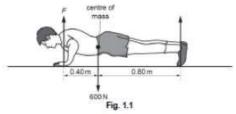


Required Practical's – PAG's At least 15% of the marks available will be on the required practical's.



There are different types of questions on the papers, and the papers are ramped according to their difficulty.

1 Fig. 1.1 shows a student doing a push-up. A total force F acts upwards on his hands. There is also a force R upwards on his toes.



The weight of the student is 600 N and this force acts downwards from his centre of gravity.

- (a) (i) Describe how the student does work as his body rises from the ground.
 - [1]
 - (ii) State the form of energy that the student uses to do this work.
- (b) At the position shown in Fig. 1.1, the student is stationary. The weight of the student causes a moment about his toes.
 - (i) Calculate the moment of the weight of the student about his toes.

moment = [1]

(iii) Calculate the value of the forces F and R.

Revision materials

- ✓ Kerboodle
- ✓ Revision guide/s
- ✓ BBC bitesize
- ✓ OCR website



Towards the end of Year 9 students will sit 3 one hour exams during their ordinary science lessons. Performance in these exams is used to group the students into Science classes for Year 10 and 11.

- Students in Set 1 and 2 follow the Higher Triple Science course (Grades 7 –9)
- Students in Set 3 follow a mixture of the Higher and Foundation Triple Science course (Grades 4 -6)
- Students in Set 4 and 5 follow mostly the Foundation Triple
 Science course (Grades 1 5)

Any questions?