Physics A Level - Preparatory Work 2024

Thank you for choosing to enrol onto the Physics A level course. There are three activities for you to complete before your first lesson.

First Activity

The first activity is to identify and improve, if necessary, any of the maths skills needed for Physics course. At the end of the first week you will complete an initial maths assessment (GCSE standard) to help you identify any areas you might need further practice with. It will cover:

- rearranging equations
- simple trigonometry
- calculations

We have produced a maths skills booklet that gives explanations and practice questions on each of the key skill areas.

1. Go through the maths skills booklet and complete the practice questions for any of the topic areas you're unsure about.

Second Activity

The first topic we are starting with is Materials, the first part of which is density.

We would like you to follow the links below and watch the two on-line videos.

1. 1st Video – concerns the difference between mass and weight.

After watching this video write down what is meant by the words "mass" and "weight".

Link: https://www.youtube.com/watch?v=_Z0X0yE8loc

2. 2nd Video – concerns buoyancy.

After watching this video, and carrying out any other research, write down an explanation of why objects float in water.

Link: https://www.youtube.com/watch?v=C_covjclcZ4

Answer: http://unlistedvideos.com/v/youtube-CTnkolWZZPI.html

- 3. Write down a prediction, with an explanation, for what will happen in the following situations:
 - a. A g0f887 0 \$2 841.2 reWhBer0.00000G -0.032 0 1 120.523.910.c.eW*7