

Year 11 Bridging Work for Physics

Week 3 and 4



Practice your Standard form!

You used standard form in GCSE Physics at A Level, we use it for all sorts of questions. It is important that you can handle the maths! Use the weblink to take you through materials for standard form – it links to Isaac Physics as well – you signed up to this on Week 1&2 - so check back to that document if you need to! There is also a livestream as well on 3rd June at 12pm if you want to ask questions!

Link:

https://www.gcsephysicsonline.com/session-1

Time: as long as you like

and Propertied

Recap on your wave knowledge – click Energy cannot be created or destroyed, it just challenge is whether we can harness and use it worksheet, then click on the play for our own purposes when it changes from one button! form to another. The three Lectures take you on an incredible journey through these powerful

Link -

Engage – **Wave Structure**

the link, then find the box about Wave Structure and Properties. Download the

https://www.stem.org.uk/remote-lessons/keystage-4

Time: 45 mins

Read -The Forces are with you!

In A level physics, we cover and build on our GCSE knowledge. This activity goes over the forces part of the GCSE course and introduces you to a range of simulations produced by PHET at the University of Colorado - we make use of these in our learning in year 12 and 13.

Links:

https://www.bbc.co.uk/programmes/b06r4wg9 https://www.bbc.co.uk/programmes/b06rxqw8

Listen –

Einstein

world's most famous physicist. He

formulated the theory of General

Relativity. Download them to your phone

when you go out and do some exercise.

Einstein is probably the

Time: 45 minutes each.



https://www.bbc.co.uk/bitesize/articles/zd6mxyc

Time: as long as you like...

The first part of a series by Jim Al-Khalili looking at the development of scientific knowledge in the Islamic world through history.

Link -

Link:

https://www.bbc.co.uk/iplayer/episode/b00gksx4/scienceand-islam-1-the-language-of-science

Time: 60 minutes



Complete -**Electricity!**

Electrical circuits come up in year 12 they are important to understanding how the world works. It is important that you have a good grounding in how circuits work – so work through these questions set for you on Isaac Physics – use the hints to be taken to tips and video explainers!

Link:

https://isaacphysics.org/

Time: Approx. 1 hour

Link -

https://www.rigb.org/christmaslectures/watch/2016/supercharged-fuelling-the-future

transformations to inspire you!

Watch -

energy?

transforms from one form to another - the

Have you got the

Time: 60 mins x3.