

Year 12 into Year 13 Physics Homework

Task 1:

Create a single A4 revision page for each of the following topics, with key facts, diagrams or units – whatever you find yourself forgetting, put it on there! In total, you should have 8 pages. See below for an example from an A2 topic!

- Particles
- Quantum phenomena (photoelectric effect etc)
- Waves
- Optics
- Mechanics
- Materials
- Circuit electricity
- Practical skills

Task 2:

Research an area of physics that is of interest to you and prepare a short (<5 minutes) presentation that you will give to the class in the new term. You can have accompanying slides or just present.

Accompanying your presentation prepare a written report summary on your topic, between 500 and 1000 words. Reference any sources you have researched (book and author, websites, magazines, documentaries...)

You can be as free as you want with the topic as long as it is linked to physics, but try to keep the focus reasonably narrow (not just 'engineering'!)

For inspiration, here are some topic titles from students' previous work:

- The physics of earthquake defences
- Why the jet stream is so important
- Can science and religion be compatible?
- Why Girls Fear Physics: An exploration of the gender divide in a male dominated field
- Movie physics – which movies got it right, and which got it so very, very wrong

