Week	Activity	Resources	How presented?
3	**Task 1** **Moments** This is a topic from the single (triple) science content for physics that we build on in A – level Revise your knowledge by watching these videos https://www.youtube.com/watch?v=22VGQM1jCn8 https://www.youtube.com/watch?v=nC_J3gRQHi8 Open the simulation and play the "Game" https://phet.colorado.edu/en/simulation/balancing-act Now complete the quiz (when you click on the link it opens the quiz, you will have 10 minutes to complete it) https://gradegorilla.com/micro/forces/M_moments.php When you complete a task it asks for School, but just type "Guest". You then only need to enter your first name (or any name you like) and it will mark it. **Task 2** **Archimedes** You may have come across Archimedes at GCSE when looking at density. Remind yourself by watching this video https://www.youtube.com/watch?v=ijj58xD5fDI At GCSE you may have also looked at floating and sinking by calculating upthrust using liquid pressure. At A – level we use Archimedes principle to help calculate upthrust (or "buoyancy force"). Find out more by listening to this video and makes some notes of the key principles involved on your Powerpoint https://www.youtube.com/watch?v=0v86Yk14rf8 A challenging extension question is provided below. If you think you can work it out, include your answer and explanation in your Powerpoint. You will need to carefully apply the principles you have used above *A man is on a pond in a boat. He drops his lead anchor overboard. Does this cause the water level of the pond to:* 1. *Increase slightly* 2. *Decrease slightly* 3. *Stay the same* FINALLY We hope you have found the work useful. Please send your completed Powerpoint to listm@denbigh.net		Include a screenshot from Phet (of your score on level 4) and of your GradeGorilla score Include these on your Powerpoint that you have been compiling. For task 2, include notes as discussed in the tasks Then email your Powerpoint as explained at the end