## Year 11 Science Half-term Revision

Over half-term, your focus is to **improve your practical knowledge** this will form part of your mocks in SPR2. Mocks will cover a **full paper 2 for biology, chemistry and physics**.

## **Mocks topics**

Paper 2:  Homeostasis and response Inheritance, variation and evolution  Ecology	Paper 2:  The rate and extent of chemical change  Organic chemistry  Chemical analysis  Chemistry of the atmosphere  Using resources	Paper 2:     Forces     Waves     Magnetism and electromagnetism     Space Physics (GCSE Physics only)
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## Tasks

- 1) You must complete <u>400 points</u> of Tassomai over the half-term. This is due on <u>Monday 19th February</u>
- 2) Create revision cards answering the following core questions, using the <u>videos</u> below.

## **Key resources**

https://www.bbc.co.uk/bitesize/examspecs/z8r997h https://www.youtube.com/@Freesciencelessons

Biology - Sampling techniques		Chemistry - Investigating water		Physics - f=ma	
Video <u>here</u>		Video <u>here</u>		Video <u>here</u>	
1) 2)	Define abundance and distribution How do you ensure random sampling?	1) 2)	Define potable water and explain how it is different to pure water Describe the stages of distillation	2)	Describe the relationships between force and acceleration Explain what provides the force
3)	Explain why random sampling is important	3)	Describe a method used to identify the pH of a solution	3)	acting on the car. How does the set-up reduce
4) 5)	State the equation used to estimate the total population size  Describe how you would use a quadrat to investigate the effect of	<ul> <li>4) Describe the steps in identifying the mass of dissolved solids.</li> <li>5) What piece of equipment is used to measure the mass of solids?</li> <li>6) Why is it important to reheat the</li> </ul>	4) 5)	friction?  Explain what needs to be measured to calculate acceleration  What must be controlled in this	
6) 7)	an abiotic factor.  Name 2 abiotic factors.  Describe how to calculate the area of a field	7)	evaporating dish again? 7) Describe when distillation may be used to obtain potable water?	6)	experiment? What must be kept constant when investigating the effect of force on acceleration?