Year 11 Science Half-term Revision

Over half-term, your focus is to **embed the core knowledge** you will be assessed on during your mocks in AUT2. This will cover a **full paper 1 for biology, chemistry and physics**. There will be an **additional topic of 'forces' in the physics paper.**

Mocks topics

Biology	Chemistry	Physics
Paper 1: Cell biology Organisation Infection and response Photosynthesis Respiration	Paper 1: Atomic structure and the periodic table Bonding, structure and the properties of matter Quantitative chemistry Chemical changes Energy changes	Paper 1:

Tasks

- 1) You must complete **800 points** of Tassomai over the two weeks
- 2) Create revision cards answering the following core questions, using **Tassomai** or **BBC** bitesize

Key resources

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

Biology	Chemistry	Physics
 State 3 extra organelles a plant cell has compared to an animal cell. Order from smallest to largest: organisms, tissue, cell, organ, organ system Describe diffusion, active transport and osmosis Name 1 example of a specialised cell and its adaptations Define pathogen. State the 4 types of pathogens Describe what a vaccine contains. Equation for photosynthesis What factors affect the rate of respiration? Equation for respiration What is the difference between aerobic and anaerobic respiration? 	 What are the subatomic particles in an atom. State their charge and mass Describe the plum pudding model and gold foil experiment Draw the electronic structure of Na and state what the group and period number tell you. Describe and explain the reactivity of the alkali metals as you go down the group. State what ionic bonding occurs between Explain why NaCl has a high melting point Calculate the relative formula mass of CO₂ Define exothermic and endothermic. 	 State 4 energy stores State 3 energy transfers State the equation to calculate efficiency Describe the movement of particles in a solid, liquid and gas State the 3 types of radiation Draw the symbol for a cell and battery Define potential difference Describe how increasing the number of components affects current Describe an experiment used to calculate spring constant Describe the difference between mass and weight