

Science/ Year 9 / End of year assessment 2025

Subject	Science
Year	9
Length	Separate biology, chemistry, and physics papers. Each 30 minutes
Title	Biology
Success Criteria	<ul style="list-style-type: none"> • Identify the parts of the structure of animal and plant cells and explain their functions • Describe the difference between animal and plant cells • Describe and explain how diffusion works in the lungs and in the intestines • Describe how photosynthesis, decomposition, respiration (aerobic and anaerobic) occurs in an organism • Describe how to use a light microscope and calculate magnification • Describe how the respiratory system and the circulatory system respond to exercise.
	Chemistry
	<ul style="list-style-type: none"> • To be able to describe the atomic structure • Define and identify elements, mixtures and compounds • To be able to use mass number and atomic number effectively • To be able to use the periodic table effectively and explain how elements are organised on the periodic table • To be able to describe how atoms gain or lose electrons to form ions • To be able to read chemical formula and balance chemical equations • Describe how acids and alkalis react and name their products • Describe how temperature and concentration affects the rate of reaction
	Physics
	<ul style="list-style-type: none"> • Identify energy stores and describe energy transfers • Apply the law of conservation of energy. • Calculate power, resultant force, work done, moment and weight • Describe the arrangement and movement of particles in solids, liquids and gases. • Describe and calculate density • Describe the structure and function of waves. • Describe the effect of forces • Calculate speed, weight, moment and power
	Working scientifically skills that could come up in all three papers: <ul style="list-style-type: none"> • Identify independent, dependent and control variables. • Use basic data analysis to calculate means and draw conclusions. • Plot experimental data onto graphs sketch a line of best fit • Rearrange equations and convert units if necessary
Resources required to revise	BBC Bitesize KS3 Science, Sparx Science, BBC Bitesize website, continuity oak to watch videos