	Week 1	Week 2	Week 3	Week 4
Biology	Lesson 1: Baseline assessment of KS3 knowledge. Lesson 2: Cells; animal and plant cells.	Lesson 3: Specialised cells Lesson 4: Organisation of the body and the digestive system.	Lesson 5: Food tests practical Lesson 6: Movement of substances- diffusion and osmosis. Osmosis practical	Lesson 5: Respiration – aerobic and anaerobic Lesson 6: Photosynthesis and pondweed investigation.
Description	Students to cover- • Use a microscope to observe cells and calculate magnification. • Students to identify the structure and function of plant and animal cells.	Students to cover- • The different types of specialised cells in both plant and animals. State their function and explain their adaptations. • Compare a palisade cell to a root hair cell. • Organisation of an organism- cells, tissues and organs. • Organ systems with a focus on the digestive system.	Students to cover- • Students to complete food tests for starch, sugar, protein and fat. • Students to identify positive and negative tests for these. • Definitions of diffusion and osmosis to be recapped. • Students to carry out osmosis practical. • Students to handle data from the osmosis practical. • Calculate percentage change in mass (H) • Plot an appropriate graph of results.	Students to cover- • Students to recall the equation for aerobic respiration. • Students to know the site of respiration in a cell. • Students to compare aerobic and anaerobic respiration. • Students to recall the equation for photosynthesis. • Students to complete practical on how light intensity affects rate of photosynthesis. • Students to calculate mean from a set of data. • Students to plot appropriate graph. • Students to deduce a patter.
Assessment	Students self-assessment Low stakes testing	Low stakes testing	Low stakes testing	Low stakes testing. Extended writing question.

	Week 5	Week 6	Week 7	Week 8
Chemistry	Lesson 7: Atoms, elements and compounds Lesson 8: Naming compounds and balancing equations	Lesson 9: Mixtures and separating techniques (filtering and evaporation) Lesson 10: Separation techniques (chromatography)	Lesson 11: Chemical reactions Lesson 12: pH Acids and alkalis	Lesson 13: Neutralisation reactions Lesson 14: The reactivity series
Description	Students to cover- • Define the terms element and compound. • Review of the periodic table • Writing word equations • Making simple compounds e.g., magnesium oxide • Naming compounds -ide and -ate. • Balancing equations	Students to cover- • Definition of a mixture • Compare mixture to a compound. • Perform filtration and evaporation. • Know how paper chromatography works. • Perform chromatography investigation.	Students to cover- • Investigate signs of a chemical reaction. • Use indicators to identify acids and alkalis. • Using pH scale for measuring acidity and alkalinity • Compare weak and strong acids.	Students to cover- • Make a salt from a neutralisation reaction. • Review the reactivity series. • Predict displacement reactions.
Assessment	Low stakes testing	Low stakes testing	Low stakes testing	Low stakes testing

	Week 9	Week 10	Week 11	Week 12
Physics	Lesson 15: Forces- contact and non-contact. Resultant forces. Lesson 16: Air resistance- investigating how surface area affects drag.	Lesson 17: Magnets. Lesson 18: Electromagnets	Lesson 19: Circuit symbols- current and voltage. Lesson 20: Resistance	Lesson 21: Revision Lesson 22: Test
Description	Students to cover- • Identify examples of contact and non -contact forces. • Calculate resultant force. • Investigate how surface area affects drag. • Discuss how falling objects hit terminal velocity.	Students to cover- • Investigate magnets and magnetic field. • Investigate what blocks magnetism. • Investigate how changing number of turns affects electromagnet strength.	Students to cover- • Circuit symbols • Investigate current and voltage in a series circuit. • Calculate resistance. • Investigate length of wire and resistance	Students to cover- • Revision
Assessment	Low stakes testing	Low stakes testing	Low stakes testing	Low stakes testing