Subject Area:	*Science – Year 7*

Autumn 1 - Weeks 1-6 (6 weeks)	**Autumn 2 - Weeks 8-15 (8 weeks)**	**Spring 1 – Weeks 16-20 (5 weeks)**
Content **Introduction to a lab & acids and alkalis** • Health & Safety and scientific equipment • Practical skills- measurements and data • Characteristics of acids and alkalis • The pH scale and neutralisation	**Content** **Energy & Electricity** • Renewable and non-renewable fuels • Energy stores and energy transfer • Generating electricity • Electrical circuits	**Content** **Cells to Systems** • Cells and microscope skills • Organ systems • Structure and parts of a plant
Assessment objectives This is the knowledge, application and skills assessed by the Big Test: • Knowledge of lab safety, apparatus and skills • Collect data and present results in graphs • Identify and name acids and alkalis.	**Assessment objectives** This is the knowledge, application and skills assessed by the Big Test: • Knowledge of energy store transfer and electricity generation • Investigate the process of combustion • Draw and investigate the properties of electric circuits.	**Assessment objectives** This is the knowledge, application and skills assessed by the Big Test: • Describe the structure and function of different cells • Use microscopes to investigate cells • Identify organ systems and state their function • Describe photosynthesis.
KAT - Week 7 (6 weeks of learning and prep)	KAT – Week 21 (13 weeks of learning and prep)	
Spring 2- Weeks 22 (end of spring 1) -27 (6 weeks)	**Summer 1 – Weeks 28-32 (5 weeks)**	**Summer 2 – Weeks 34-40 (7 weeks)**
Content **Particle Theory** • Properties of solids, liquids and gases • Elements, compounds and mixtures • Separation techniques	**Content** **Forces and Magnetism** • Balanced and unbalanced forces • Force diagrams • Mass vs weight and gravity • Speed, distance and time. • Magnetism	**Content** **Ecosystems & Feeding relationships** • Habitats & Adaptations • Food chains and food webs • Feeding relationships • Human Impact on endangered species.
Assessment objectives This is the knowledge, application and skills assessed by the Big Test: • Draw and label particle diagrams • Describe the structure of the periodic table • Compare elements, compounds and mixtures • Knowledge of different separating techniques.	**Assessment objectives** This is the knowledge, application and skills assessed by the Big Test: • Describe the effects of balanced and unbalanced forces • Draw and label force diagrams and calculate a resultant force • Investigate friction and air resistance • Calculate speed, distance and time. • Draw magnetic fields and explain how to change the strength of electromagnets.	**Assessment objectives** This is the knowledge, application and skills assessed by the Big Test (in Autumn 1 of next year): • Describe and explain animal adaptations • Describe energy flow in a food web • Describe predator prey relationships • Explain why organisms can become endangered and how it can be prevented.
KAT - Week 33 (11 weeks learning and prep)		