'Key Sheet' – Working Scientifically

Year Group; 3

Key Skills	Key Content
• Respond to suggestions. With help, put forward ideas about testing. • Begin to suggest questions to be tested • With help, consider what constitutes a fair test. • With help, plan and carry out a fair test. • Make observations and comparisons. • Measure length, volume of liquid and time in standard measures using simple measuring equipment. • Use first-hand experience and simple information sources to answer questions. • Communicate findings in a variety of ways. • Begin to create conclusions based on findings • Identify simple patterns	• Asking relevant questions and using different types of scientific enquiries to answer them • Setting up simple practical enquiries, comparative and fair tests • Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers • Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions • Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables • Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions • Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions • Identifying differences, similarities or changes related to simple scientific ideas and processes • Using straightforward scientific evidence to answer questions or to support their findings.
Key questions	**Key Vocabulary**
• How could we compare… • What do you want to find out? • How could we find out? • What equipment would we need? • What equipment would we use to measure … (time, liquid etc. – as appropriate) • What would you be testing/ measuring/ observing? • How can we keep it fair? • What will stay the same? • What will be changed?(only one thing) • How can we record what happens? • What did you notice? • What happened?	Compare Fair test Measure Observe Variable (what is changed) Constant (things that stay the same) Conclusion