TSS Primary Science MTP 2022-2023
Year 5 Block 1 – Working scientifically

Key Targets and Learning Objectives	Key Activities	Equipment
• Know that a model presents an object, process or idea in a way that shows some of the important features • Use models, including diagrams, to represent and describe scientific phenomena and ideas • Ask scientific questions and select appropriate scientific enquiries to use • Know the features of the five main types of scientific enquiry • Make predictions, referring to relevant scientific knowledge and understanding with familiar and unfamiliar contexts • Plan fair test investigations, identifying the independent, dependent and control variables • Describe risks when planning practical work and consider how to minimise them • Sort, group and classify objects, materials and living things through testing, observation and using secondary information • Complete a key based on easily observed differences • Choose equipment from a provided selection and use it appropriately • Decide when observations and measurements need to be repeated to give more reliable data • Take appropriately accurate measurements • Carry out practical work safely • Use a range of secondary information sources to research and select relevant evidence to answer questions • Collect and record observations and/or measurements in tables and diagrams appropriate to	• Enact the digestive system – pushing foods through the intestines (tights) – *Biology link* • Sorting activity – predator and prey and looking at how they have adapted to hunt / defend themselves. Start to introduce identification keys. *Biology* link • (2 lessons) Using scientific enquiry – mini measurements carousel activity. Stations: 1) Force meters to test friction force of different materials 2) Measure distance of blow dart 3) Measure volume of containers 4) Measure weight of diff objects 5) Measure temperature of different objects • Solid, liquid gas investigation – melting different liquids • Paper airplane investigation – measurements and recording data – *Physics* link STEM activity – Egg drop! Build a structure to hold an egg and keep it protected when dropped from a height. https://buggyandbuddy.com/stem-kids-egg-drop-project/	• Various foods and mixing bowls • Tights • Force meters • Measuring jugs • Tape measures • Rulers • Thermometers • Scales • Car ramp • Wooden cars • Paper

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the type of scientific enquiry • Describe the accuracy of predictions, based on results • Describe patterns in results, including identifying and anomalous results • Make a conclusion from results informed by scientific understanding • Suggest how an investigation could be improved and explain any proposed changes • Present and interpret results using tables, bar charts, dot plots and line graphs		

Key vocabulary	Going Green Link	Integration of technology
Model, fair test, investigation, prediction, measurements, observation, conclusion, scientific enquiry, Biology, Chemistry, solid, liquid, gas, Physics, friction, force	• Look at how scientists are tackling climate change – research focus - Who are the key activists / scientists? - Why is more not being done? *Science in context* link	Use of iPads • Create graphs using apps • Make observations using video and pictures • Use augmented reality to explore scientific ideas