



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

Key Targets and Learning Objectives		Key Activities	Equipment
<ul style="list-style-type: none"> • Ask questions about the world around us and talk about how to find answers • Make predictions about what they think will happen • Sort and group objects, materials and living things based on observations of the similarities and differences between them • Use given equipment appropriately • Take measurements in non-standard units • Follow instructions safely when doing practical work • Collect and record observations and/or measurements by annotating images and completing simple tables • Describe what happened during an enquiry and if it matched predictions 		<ul style="list-style-type: none"> • Bring in collection of objects – materials (e.g. cotton, silk, wood, plastic), toys, foods, leaves, etc. Find similarities and differences. Group into natural / manmade. • Make a rainbow Twinkl How to grow a rainbow.pdf <i>Chemistry</i> link – which materials are best for absorbing liquids? • Measure the head circumference investigation, using ribbons / paper. Order head sizes – whose heads are larger? Boys or girls? Did it match predictions? How can you present your findings? Stick the ribbons together end-to-end? • Liquid or solid? Make slime! Science Museum Kitchen Science.pdf (pages 16-19) <i>Chemistry</i> link • Celery stalk experiment - https://www.pbs.org/parents/crafts-and-experiments/rainbow-celery-experiment Discuss how humans are similar to plants – <i>Biology</i> link • Investigating bubbles! https://www.learningresources.com/blog/diy-unpoppable-bubbles Can you see who can blow the biggest bubble? Use straws to blow bubbles within bubbles. Can two bubbles touch without becoming one? Have fun! <i>Chemistry</i> link <p>STEM activity – build a boat! Give children some paper / card, sellotape, scissors and get them to build a boat to float on water. Add weights to the boat and see which one stay afloat the longest. Which team won? Why did they win? What may have stopped others from achieving.</p>	<ul style="list-style-type: none"> • Various objects • Containers • Colouring pens • Tissue / paper • Ribbons for non-standard measuring • Corn flour • Mixing bowls • Celery stems (ideally with leaves on) • Glycerin • Scissors • Sellotape • Card
Key vocabulary	Going Green Link	Integration of technology	
Question, Predict, Observe, Equipment, Measure, Describe, Experiment, Safety, Research, Liquid, Solid, Circumference	Think about: What does is mean for the world if the ice caps melt and sea levels rise?	Use of iPads <ul style="list-style-type: none"> - Use pictures to help with observations or to present data - Research boat designs for STEM activity 	