



TSS Primary Science MTP 2023-2024 Year 3 Block 3 – Earth and Space

Key Targets and Learning Objectives	Key Activities	Equipment
<ul style="list-style-type: none"> Know that planet Earth is the source of all the materials we use and that many useful materials, including oil, natural gas and metals, come from or are found in rocks. Know that fossils are impressions, or remains, of things that were once alive. Describe the regular change in the position and appearance of the Moon. Describe the relative movement of the Earth and Moon. Describe the Earth, Sun and Moon as approximately spherical. Make and use physical models. (WS) Draw a diagram to represent a real-world situation and/or scientific idea. (WS) Carry out practical work safely. (WS) 	<p><i>Make a salt dough fossil impression</i> Make a simple salt dough and use impressions from shells or toys, allow to dry to produce their own fossils. Demo video: https://www.youtube.com/watch?v=EMdN5nNMtCo (alternatively, clay can be used)</p> <p><i>Model the Moon's orbit</i> Squash paper to make a ball, use sticky tape to attach it to a string and (carefully) swing around your head to mimic how the moon moves (take students outside if needed)</p> <p><i>How gravity impacts the shape of planets and bodies in space</i> Give each child a rectangular piece of clay, have them push from different sides together (mimicking the force of gravity on the planet) and see how if we push from different directions over time the clay forms a ball.</p> <p>STEM activity – Make straw rockets. See: Year 3 STEM Straw Rockets.docx</p>	<p>Salt dough fossil: (per student/group) Clay (or...) 2 cups flour One cup salt Water Bowl for mixing Shell/toy dino to make impression</p> <p>Gravity on shapes: Clay/playdoh for each child</p> <p>Moon orbit Paper Tape String Stick/dowling</p>
Key vocabulary	Going Green Link	Integration of technology



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<p>Fossil, gum, impression, sphere, spherical, crater, orbit, scale model</p> <p>Fuels, natural gas, oil, petrol, ore, iron, aluminium, carbon, diesel, global warming</p> <p>Crescent, gibbous, phase, rotate, waning, waxing, northern hemisphere, southern hemisphere</p>	<p>- Introduce a discussion on fossil fuels and how they are made, look into alternative renewable sources of energy.</p>	<p>Videos of recordings of space/the moon https://spaceplace.nasa.gov/search/moon/ (kids friendly space facts for research)</p>	
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