



TSS Primary Science MTP 2022-2023

Year 3 Block 3 – Earth and Space

Key Targets and Learning Objectives		Key Activities	Equipment
<p>The Planet Earth</p> <ul style="list-style-type: none"> • 3ESp.01 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. • (student book pp. 55-59, workbook pp. 30-33) • 3ESp.02 Know that fossils are impressions, or remains, of things that were once alive. • (student book pp. 114-120, workbook pp. 58-61) <p>Earth in Space</p> <ul style="list-style-type: none"> • 3ESs.01 Describe the regular change in the position and appearance of the Moon. • 3ESs.02 Describe the relative movement of the Earth and Moon. • 3ESs.03 Describe the Earth, Sun and Moon as approximately spherical 		<ul style="list-style-type: none"> • <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 • <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) • <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. 	<ul style="list-style-type: none"> • Salt dough fossil: • (per student/group) • 2 cups flour • One cup salt • Water • Bowl for mixing • Shell/toy dino to make impression • Gravity on shapes: • Clay/playdoh for each child • Moon orbit • Paper • Tape • String
Key vocabulary	Going Green Link	Integration of technology	
Fossil, gum, impression, sphere, spherical, crater, orbit, scale model Fuels, natural gas, oil, petrol, ore, iron, aluminium, carbon, diesel, global warming Crescent, gibbous, phase, rotate, waning, waxing, northern hemisphere, southern hemisphere	Introduce a discussion on fossil fuels and how they are made, look into alternative renewable sources of energy.	Videos of recordings of space/the moon https://spaceplace.nasa.gov/search/moon/ (kids friendly space facts for research)	