



**TSS Primary Science MTP 2022-2023**  
**Year 3 Block 4 – Earth and Space**

Key Targets and Learning Objectives	Key Activities	Equipment
<p>• <b>Forces and Energy</b></p> <p>Know that gravity on Earth is a force that pulls towards the center of the Earth.</p> <p>Know that friction is a force created between surfaces when they move against each other, and it makes this movement harder.</p> <p>Investigate how light can pass through some materials and is blocked by others, and use the terms transparent, translucent, and opaque.</p> <p>Know that shadows are formed when light from a source is blocked by an object.</p> <p>Describe magnets as having a north pole and a south pole.</p> <p>Describe how magnets interact when near each other, using the terms repel and attract.</p> <p>Investigate how some materials are magnetic but many are not.</p>	<p>Making a force meter: use a force meter to pull things use the force meter to weight objects.</p> <p>Do heavier objects fall faster ? make predictions of different objects with different weight falling to the ground.</p> <p>Which surface has the least friction? Pull objects on different surfaces and choose a force meter to measure the friction.</p> <p>Investigating poles: use magnets to see how they attract and pull away from each other.</p> <p>Investigate which materials are opaque and transparent.</p>	<p>Rubber band</p> <p>Two paper clips</p> <p>A piece of cardboard paper,</p> <p>Glue</p> <p>Lined paper</p> <p>Force meter</p> <p>Object to pull</p> <p>Different surfaces</p> <p>Magnets</p> <p>compass</p> <p>Flash light</p>



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Key vocabulary	Going Green Link	Integration of technology	
<b>Blocked</b> <b>Opaque</b> <b>Shadow</b> <b>Force meter</b> <b>Newton</b> <b>Slippery</b> <b>Friction</b> <b>Grip</b> <b>Attract</b> <b>Magnetism</b> <b>Repel</b> <b>North pole – south pole</b>	- Investigate the use of magnets in our daily life. Learn about the use of sustainable magnets.	Compare the North and south pole. <a href="https://www.youtube.com/watch?v=Z5VRoGTF60s">https://www.youtube.com/watch?v=Z5VRoGTF60s</a>	