



## TSS Primary Science MTP 2021-2022 Year 3 Block 5 – Forces and Motion

| Key Targets and Learning Objectives                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Key Activities                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                             | Key Vocabulary                                                                                                                                                                                                                                                                                                                         |
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| <ul style="list-style-type: none"> <li>• Know that pushes and pulls are examples of forces and that they can be measured with force meters.</li> <li>• Explore how forces can make objects start or stop moving.</li> <li>• Explore how forces can change the shape of objects.</li> <li>• Explore how forces, including friction, can make objects move faster or slower or change direction.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>• Decide which toys need to be pushed to make them move and which need to be pulled.</li> <li>• Identify pushes and pulls in different sports.</li> <li>• Identify the different forces needed to make it move.</li> <li>• Measure forces using a newton meter.</li> <li>• Examine how forces affect the movement of an object.</li> </ul> |                                                                                                                                                             | <ul style="list-style-type: none"> <li>• Push</li> <li>• Pull</li> <li>• Twist</li> <li>• Stationary</li> <li>• Gravity</li> <li>• Newtons</li> <li>• Weight</li> <li>• Force meter</li> <li>• Newton meter</li> <li>• Direction</li> <li>• Applying</li> <li>• Squeeze</li> <li>• Dent</li> <li>• Bend</li> <li>• Friction</li> </ul> |
| Working Scientifically:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Going Green Link:                                                                                                                                                                                                                                                                                                                                                                 | Integration of technology:                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• Can ask relevant questions and using different types of scientific enquiries to answer them.</li> <li>• Can set up simple practical enquiries, comparative and fair tests.</li> <li>• Can make systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.</li> <li>• Can gather, record, classify and present data in a variety of ways to help in answering questions.</li> <li>• Can record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.</li> <li>• Can report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.</li> <li>• Can use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.</li> <li>• Can identify differences, similarities or changes related to simple scientific ideas and processes.</li> </ul> <p>Can use straightforward scientific evidence to answer questions or to support their findings.</p> | <ul style="list-style-type: none"> <li>• (Objective)</li> </ul>                                                                                                                                                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>• Document investigations, using tablets.</li> <li>• Building catapults and trap doors and how they work.</li> </ul> |                                                                                                                                                                                                                                                                                                                                        |