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| **Lesson 1** | **Lesson 2** | **Lesson 3** | **Lesson 4** | **Lesson 5** |
| **Learning Objectives** | | | |  |
| I can identify forces acting on objects | I can explore the effect that gravity has on objects and how the first theory of gravity was developed. | I can investigate the effects of air resistance. | I can explore the effects of water resistance | I can explore and design mechanisms |
| **Knowledge Goals**  Identify forces as pushes and pulls.  Identify and explain the different forces  Acting on objects. | **Knowledge Goals**  Explain the effect of gravity on unsupported objects.  Explain Isaac Newton’s role in developing a theory of gravity.  Accurately measure the force of gravity pulling on objects. | **Knowledge Goals**  Explain how air resistance affects moving objects.  Plan and conduct an investigation into the effects of air resistance.  **Scientific Skills**  choose the most appropriate equipment to make measurements and explain how to use it accurately;  take measurements using a range of scientific equipment with increasing accuracy and precision;  know the importance of taking repeat readings and take repeat readings where appropriate | **Knowledge Goals**  Explain the effects of water resistance.  Identify streamlined shapes.  Minimise the effects of water resistance on an object.  **Scientific Skills**  choose the most appropriate equipment to make measurements and explain how to use it accurately; | **Knowledge Goals**  Explain how different mechanisms work.  Investigate a simple mechanism.  Design my own mechanism for a given purpose. |