**FORCES**

**Level 2**

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| Lesson 1 | Come Fly with me. |
| Outcome | By investigating how friction, including air resistance, affects motion, I can suggest ways to improve efficiency in moving objects. **SCN 2-07a** |
| Resources | Circles of paper, paper clips, timers. |
| Lesson Outline | Recap the words associated with forces.Talk about what happens to objects when they move, why do they slow down? How easy is it to run in a swimming pool – lead to the idea of friction and resistance (Air and Water).Get pupils to rub hands together, they get hot because of the friction. Interleaf two paperbacks and then try to pull them apart.Parachute investigationWhat affects how fast a parachute takes to fall – get pupils to think about variables and how they could measure them. In this investigation the pupils will make a cone, whose diameter can be varied, hence changing the amount of air resistance. Get pupils to design an investigation to relate the size of the cone to the time taken to fall. Think about a fair test and get the pupils to make a prediction they can test. (Could use a template to design the investigation)Carry out the investigation.Write up including a diagram showing the forces acting on the cone.To see this investigation in practice use this link <https://youtu.be/WyFx0dwVuQA> |
| Extension |  |