'Key Sheet' – Forces

Year 5

Key Contents	Key Skills
• Understand the force of gravity and its effects on objects • Understand the terms: air resistance water resistance friction • Understand the effect that the above forces can have on moving objects. • Understand what levers, gears and pulleys are • Recognise using a lever, gear or pulley allows a smaller force to be more effective. • **Design and make a variety of parachutes and determine which designs are the most effective.** • **Investigate how much force is needed to move an object. (eg shoes or bottles)** • **Explore resistance in water by making and testing objects of different shapes.** • **Create a pulley to lift an object.**	• Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object • Identify the effects of air resistance, water resistance and friction, that act between moving surfaces • Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.
Key questions	**Key Vocabulary**
• What is gravity? • What is air resistance? • What is water resistance? • What is friction? • Why are levers, gear and pulleys useful?	**Air resistance** **Water resistance** **Gravity** Friction **Levers** **Gears** **Pulleys** Force