

As a **Science** learner in **Discovery** I can...

Establishing

- E1 I can **recall** words that identify forces and that forces cause motion
- E2 I can **show** how the Moon orbits the Earth and how the Earth orbits the Sun
- E3 I can test predictions and **identify** patterns

Developing

- D1 I will **describe** how friction opposes motion, upthrust pushes upwards and weight pulls downwards
- D2 I will **understand** that the Sun and stars are light sources but the Moon reflects light
- D3 I can **tabulate** good measurements with repeats

Securing

- S1 I can **show** the direction in which a force acts and know when a force is balanced by another
- S2 I can **construct** and apply a simple model to explain the length of the day and the year
- S3 I can **explain** any anomalous results saying why they look odd

Advancing

- A1 I can **conclude** that friction opposes motion and that forces determine the rate of change of movement
- A2 I can **compare** eclipses, phases of the Moon and seasonal changes to a simple model of the Sun, Earth and Moon system
- A3 I can write a **conclusion** using my results and the pattern from my graph based on scientific ideas

Excelling

- E1 I can **prove** the relationship between weight and gravity and relate the motions of bodies in the Solar System to gravitational attraction
- E2 I can **formulate** using models, the relationship between distance from the Sun and orbit periods
- E3 I can **create** an appropriate graph by using suitable scales and axes. I can explain how the lines I drew on graphs enabled me to show my data effectively