



(Year 7 Physics) Learning Journey Map

YEAR
8

3. The Earth

5. Changing Ideas About The Solar System

2. The Solar System

4. The Moon

Working Scientifically: Identify scientific evidence from secondary information and draw valid conclusions that use more than one piece of supporting evidence

Topic 5: Space (Half-term 6)

Maths Skills: Basic numeracy including describing patterns in data linking day-length and month, identifying patterns in the Spacing and Diameters of Planets and using data to show the effect of the Earth's tilt on temperature and day length

4. Detecting Sound

TOPIC NAME

1. The Night Sky

5. Echoes and Ultrasound

Working Scientifically: Use a slinky to demonstrate transverse and longitudinal waves and measure the distance to a building by timing the echo of a clap.

Topic 4: Sound Waves (Half-term 4)

Maths Skills: Basic numeracy

2. Sound and Energy Transfer

TOPIC NAME

1. Waves

3. Loudness and Pitch

Working Scientifically: Compare the advantages of series and parallel circuits for particular uses and suggest ways to reduce the risk of getting electrostatic shocks.

3. Using Electromagnets

1. Magnets and Magnetic Fields

Maths Skills: Basic numeracy

TOPIC NAME

2. Electromagnets

Topic 3: Magnetism (Half-term 3)

3. Solubility

Maths Skills: Basic numeracy including basic force calculations and presenting data in a graph and describing patterns

Working Scientifically: Use a newton meter to make predictions about the size of forces, draw force diagrams to show the forces acting on an objects, carry out an experiment to test a prediction of friction caused by different surfaces and draw tables to present results.

3. Squashing and Stretching

5. Forces at a Distance

Topic 2: Forces (Half-term 2)

1. Identifying Forces

2. Representing Forces

4. Drag Forces and Friction

TOPIC NAME

4. Energy and Power

2. Energy Adds Up

Topic 1: Energy (Half-term 1)

Working Scientifically: Present observations of energy transfers in a table, identify and describe how to reduce a source of error and predict the relative power of appliances

YEAR
7

3. Energy and Temperature

1. Food and Fuels

Content
 BBC bitesize link KS3 [KS3 Physics - BBC Bitesize](#)

TOPIC NAME

Maths Skills: Basic numeracy including identify, comparing and calculating energy values and requirements for food and fuels