(Year 8 Physics)
Learning Journey Map

YEAR 9

Topic 4: Light (Half-term 5)

- 1. Light Waves
- 2. Reflection
- 3. Refraction
- 4. The Eye and the Camera
- 5. Colour

Maths Skills: Basic numeracy including calculating the distance travelled by light in a light-year and take accurate measurements of angles

Working Scientifically: Compare results with other groups, suggesting reasons for differences, predict how light will interact with different materials. evaluate results, suggesting reasons for differences, use suitable materials to make models of the eye and the camera and predict how red light will appear on a white surface

TOPIC NAME

Topic 3: Electricity (Half-term 4)

- 1. Charging up
- 2. Circuits and Current
- 3. Potential Difference
- 4. Series and Parallel Circuits
- 5. Resistance

Working Scientifically: Predict how charged objects will interact, predict the current in different circuits and predict the effect of changing the rating of a battery or bulb in a circuit.

Maths Skills: Basic numeracy including calculating the resistance of a component and of a circuit.

TOPIC NAME

Topic 2: Motion and Pressure (Half-term 2)

- 1. Speed
- 2 Motion graphs
- 3. Pressure in solids
- 4. Pressure in Liquids
- 5. Pressure in gases

Working Scientifically : Interpret distance-time graph, calculate speed from a distance-time graph, plot data on a distance-time graph accurately, predict quantitatively the effect of changing area and/or force on pressure, predict how water pressure changes in a familiar context, using scientific knowledge and understanding, interpret observations of atmospheric pressure

Maths Skills: Basic numeracy including calculating speed and pressure

TOPIC NAME

Topic 1: Energy Part 2 (Half-term 1)

- 1. Energy Transfer: Particles
- 2. Energy Transfer: Radiation
- 3. Energy Resources
- 4. Work, Energy and Machines

Working Scientifically : Choose an appropriate source of secondary information and evaluate results from an energy transfer practical

Maths Skills: Basic numeracy including describing the pattern in conduction shown by results, using numerical data to inform conclusions and calculating work done.

- ❑ Content
- ❑ BBC bitesize link KS3 KS3 Physics - BBC Bitesize

TOPIC NAME

YEAR 8