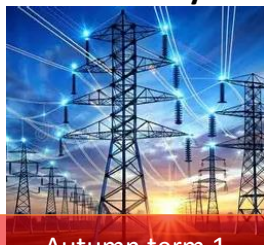




YEAR 8 LEARNING JOURNEY INFORMATION

SCIENCE

Variation
Periodic table
Electricity



Autumn term 1

Knowledge: I will learn how variation occurs within a species and how inherited and environmental factors influence characteristics. I will learn how elements are organised in the periodic table and recognise patterns in their properties. I will learn how electrical circuits work, how current flows, and how different components affect a circuit.

Skills: I will develop my skills in observing patterns, interpreting data, building circuits and using scientific vocabulary to explain scientific ideas.

Digestion
Wave effects and properties

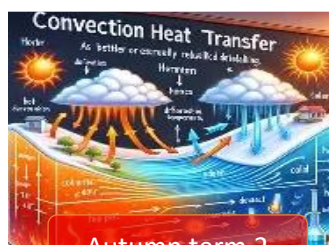


Spring term 2

Knowledge: I will learn how the digestive system breaks down food and absorbs nutrients needed by the body. I will learn about the properties of waves, including reflection, absorption and transmission, and how waves transfer energy.

Skills: I will develop my skills in interpreting evidence, identifying patterns and communicating scientific explanations using appropriate vocabulary.

Human Reproduction
Elements
Work, heating and cooling



Autumn term 2

Knowledge: I will learn about the stages of human reproduction and development from fertilisation to birth. I will learn about elements and how they are classified according to their properties. I will learn how work is done when forces transfer energy, and how heating and cooling affect materials and energy transfers.

Skills: I will develop my skills in planning investigations, collecting evidence, recording results and explaining scientific processes.

Respiration
Type of reaction
End of year test

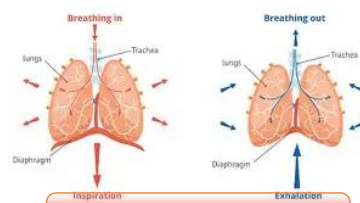


Summer term 2

Knowledge: I will learn how respiration releases energy for life processes and compare aerobic and anaerobic respiration. I will learn about different types of chemical reactions and identify evidence that a chemical change has occurred. I will use my knowledge from across the year to prepare for and complete the end of year assessment.

Skills: I will develop my skills in practical investigation, evaluating evidence and applying scientific knowledge to unfamiliar contexts.

Breathing
Chemical energy
Pressure

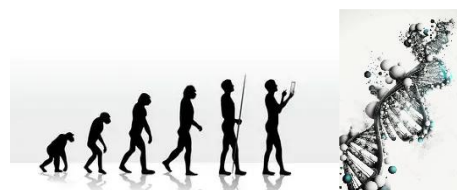


Spring term 1

Knowledge: I will learn how the breathing system helps the body obtain oxygen and remove carbon dioxide. I will learn how chemical energy is stored and transferred in fuels, foods and reactions. I will learn how pressure acts in liquids, gases and solids and how it affects everyday situations.

Skills: I will develop my skills in analysing data, making predictions and using scientific evidence to support conclusions.

Evolution
Earth resources
Magnets and electromagnets



Summer term 2

Knowledge: I will learn how species change over time through evolution and how evidence supports evolutionary theory. I will learn about Earth's resources and how they are used sustainably. I will learn how magnets and electromagnets work and explain their uses in everyday technology.

Skills: I will develop my skills in critical thinking, analysing evidence, solving problems and communicating scientific ideas clearly using scientific vocabulary.