

YEAR 7 LEARNING JOURNEY INFORMATION

SCIENCE

Solids Liquids & Gases Cells Solutions

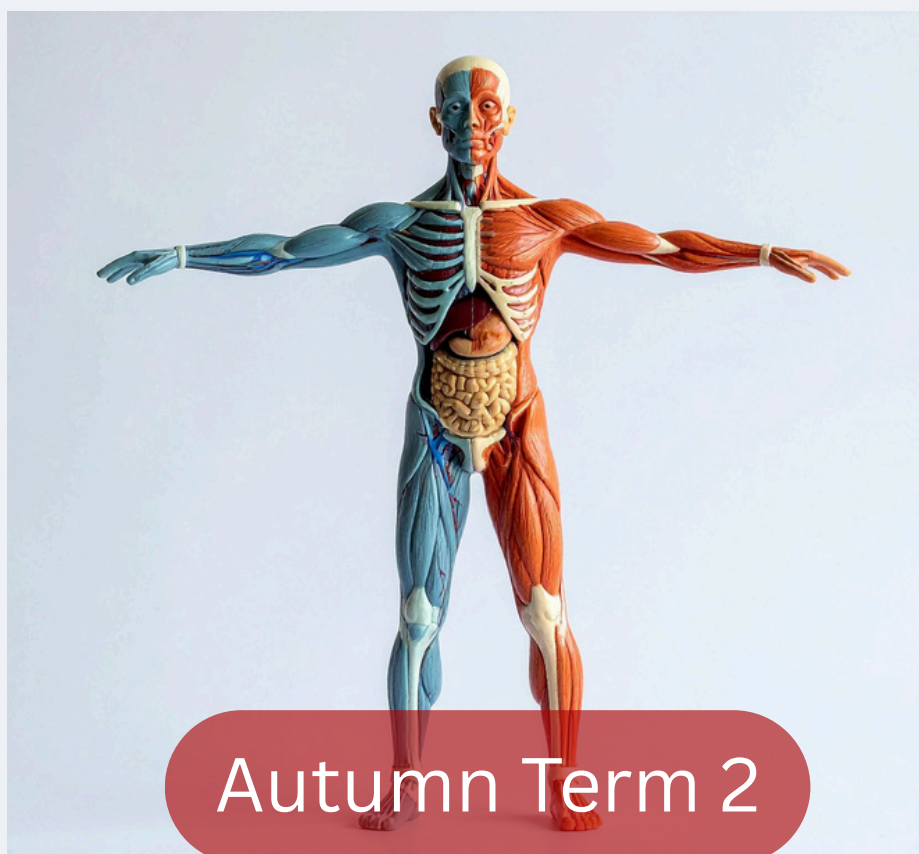


Autumn Term 1

KNOWLEDGE I will learn about how particles move in different states and the science behind why particles change state. I will learn about the similarities and differences between different cells including animal, plant, unicellular and specialised cells of different organisms. I will learn about the differences between a pure substance and a solution and how particles are mixed together

SKILL: I will learn how to use a Bunsen burner, thermometer and microscope

Human Skeleton & Muscles Forces

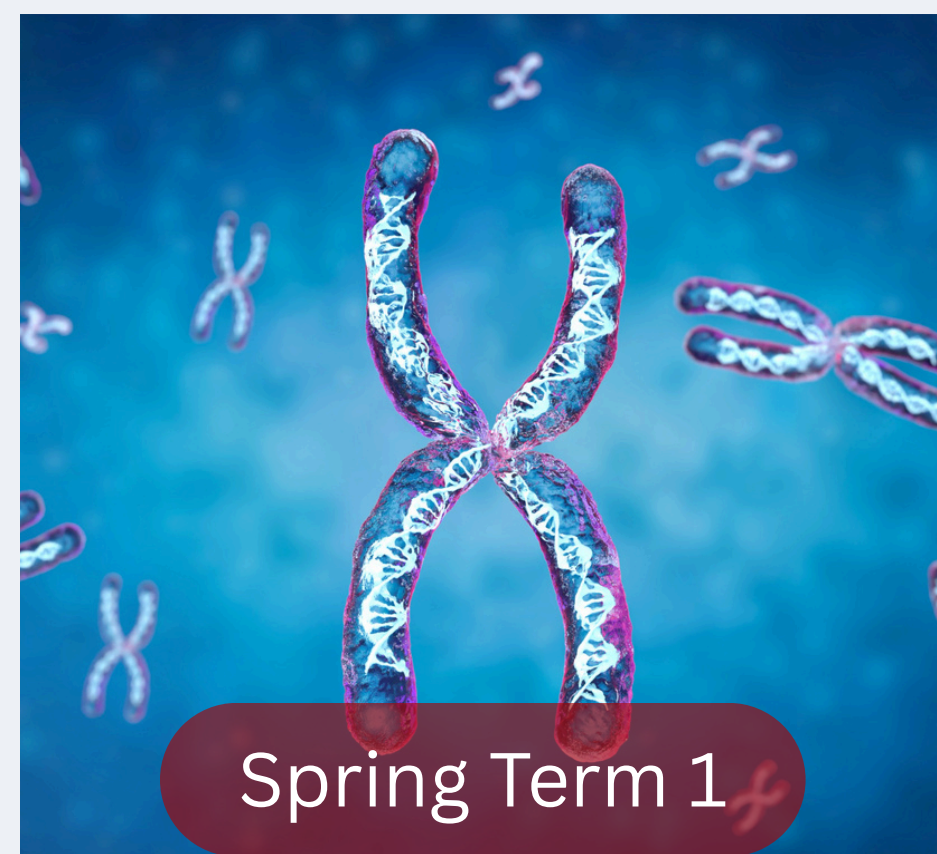


Autumn Term 2

KNOWLEDGE I will learn about the importance and function of the skeleton and different types of muscles in the body and where they are located. I will learn how these interact to help us move. I will learn about different types of forces and examples of these forces as well as being able to measure forces.

SKILL: I will learn to use a Newton Metre and draw force diagrams

Separation Techniques Heredity & DNA Sound, Light & Vision



Spring Term 1

KNOWLEDGE I will learn techniques to separate soluble and insoluble substances. I will learn what DNA is, where it is found and the genetic material found within DNA. I will learn about how sound travels in different mediums and how light affects our vision.

SKILL: I will learn different techniques of separating substances. I will learn how to extract DNA from a fruit and draw scientific equipment

Heating & Cooling Diffusion

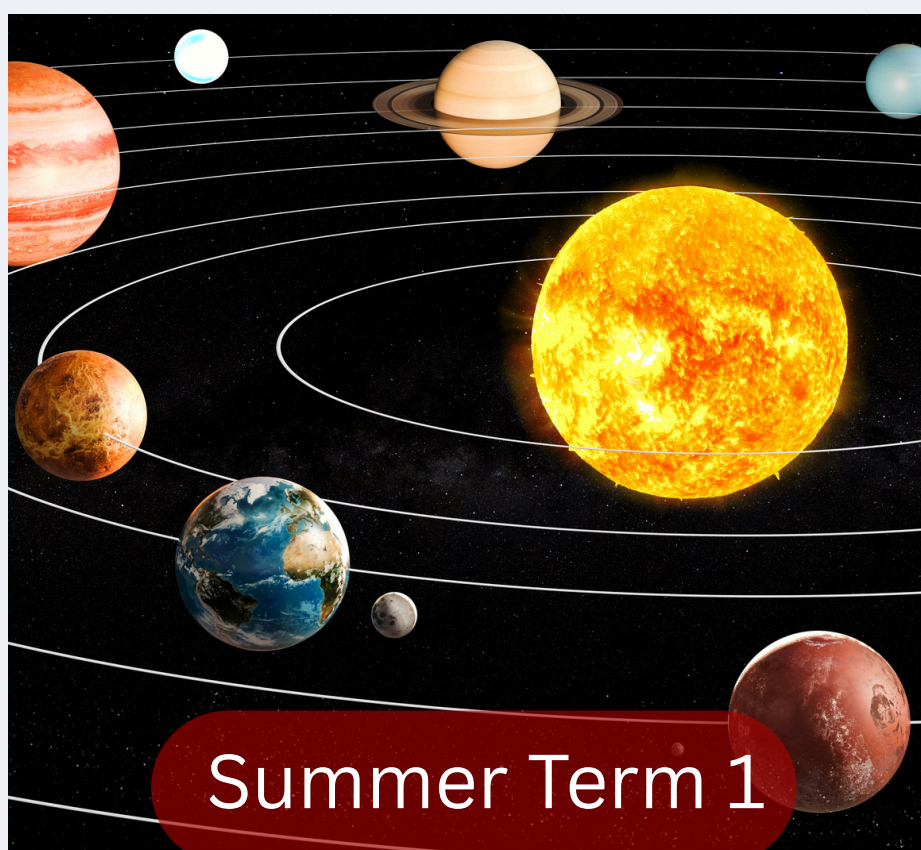


Spring Term 2

KNOWLEDGE I will learn about how to accurately measure temperature and look at how different materials can act as conductors or insulators. I will learn about how the temperature of a substance affects a substance rate of diffusion.

SKILL: I will learn how to plot a graph and accurately read a thermometer.

Atoms, Elements & Compounds Our Solar System & Beyond Reproduction In Humans



Summer Term 1

KNOWLEDGE I will learn about what an atom, element and compound is and properties of different types of elements and how compounds are formed. I will learn about what makes up our solar system and how the movement of earth leads to day and night and seasons of the year. I will learn about puberty and reproductive organs of organisms as well as gestation and birth in humans.

SKILL: I will learn how to use a periodic table

Series Circuits Ecosystems Climate Change Living Sustainably



Summer Term 2

KNOWLEDGE I will learn about making a series circuit and how to accurately measure current and voltage within a circuit. I will learn about food chains and food webs as well as predator - prey relationships and the importance of biodiversity. I will learn about the impact of climate change and what we can do to lead a more sustainable life.

SKILL: How to build a circuit and interpret food web diagrams.