

Year 7 Science

Learning Programme 1

The LORIC skill focus for his LP is: LEADERSHIP The Moral Virtues focus for this LP are: COURAGE and HUMILITY. Courage - Acting with bravery and overcoming fears. I will show courage by answering a question in class even when I'm not 100% sure of the answer. Humility - Having a modest view of oneself. I will show humility by admitting mistakes and asking for help when needed.			Literacy Non-Negotiables: • Capital letters must be used at the start of sentences and for the first letter of proper nouns • Full stops must be used at the end of a sentence • Question marks must be used at the end of a question • Apostrophes should only be used for possession or omission • Days of the week and months must be spelled correctly • Key words must be spelled correctly • Vocabulary to be taught using the Frayer model
What will I be learning about in this Learning Programme? An introduction to laboratory safety and particle model. Where have I seen this learning before? States of matter, properties of solids, liquids and gases, use of basic scientific equipment and variables in primary school. What could I use it for? Laboratory safety and how science works skills will be used throughout school during investigations. Particle model is revisited in both GCSE chemistry and physics but the concept is used throughout all sciences.			
In LP1.1, I will know:	01/09/26 - (WK 1)	Key Vocabulary	Homework
about consistency across the college and classroom expectations; how to recognise potential hazards in the lab and identify variables within an investigation; how to identify scientific equipment, explain what they are used for and draw standardised diagrams.📄		Variable	Sparx Science task
In LP1.2, I will know:	07/09/26 - (WK 2)	Key Vocabulary	Homework
how to use Bunsen burners safely to heat water working towards a Bunsen Burner license; the properties of a substance in its three states; how to use the particle model to explain changes of state involving solids and liquids.📄		State of matter	Sparx Science task
In LP1.3, I will know:	14/09/26 - (WK 1)	Key Vocabulary	Homework
how to use the particle model to explain boiling and condensing; how to interpret the patterns in heating and cooling curves; how to tell if a substance is pure using heating and cooling curves. 📄 Extended Task.		Change of state	Sparx Science task
In LP1.4, I will know:	21/09/26 - (WK 2)	Key Vocabulary	Homework
my strengths and areas for development; how to link the behaviour of atoms within substances to why elements, but not lone atoms, exhibit properties; how to identify elements within compounds and explain why a compound has different properties to the elements in it.📄		Element	Sparx Science task
In LP1.5, I will know:	28/09/26 - (WK 1)	Key Vocabulary	Homework
how particles are arranged in mixtures and be able to comment on a substance's purity by interpreting temperature data; how to draw a bar chart of melting point data; the relationship between solutes, solvents, and solutions.		Compound	Sparx Science task
In LP1.6, I will know:	05/10/26 - (WK 2)	Key Vocabulary	Homework
why temperature affects the amount of solute dissolved in a solution; how to use particle diagrams to explain how diffusion occurs and the factors that affect it; how to use the particle model to explain gas pressure and describe the factors that affect it.📄 Extended Task.		Mixture	Sparx Science task
In LP1.7, I will know:	12/10/26 - (WK 1)	Key Vocabulary	Homework
my strengths and areas for development; how elements are organised in the periodic table based on their properties; how to compare and contrast Mendeleev's periodic table and the modern periodic table.📄		Periodic table	Sparx Science task
Resources to support learning: EPC Knowledge organisers, BBC Bitesize, Booklet📄			
FFET Award Challenge for this Learning Programme: Research a Scientist who inspires you to be more and create a biography on them.📄			

