

Year 8 Science

Learning Programme 3

The LORIC skill focus for his LP is: RESILIENCE The Moral Virtues focus for this LP are: RESPECT and JUSTICE		Literacy: <ul style="list-style-type: none"> 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
Respect - treat others how you would wish to be treated yourself. Justice - our College rules are fair and reasonable.		
What will I be learning about in this Learning Programme? About energy and how it is transferred, the night sky, and the processes that create day/night, seasons and the force of gravity.		
Where have I seen this learning before? Earth and space in KS2, including the movement of the earth, moon and planets in space.		
What could I use it for? Earth and atmosphere is revisited in KS4 GCSE, and Space physics in GCSE physics.		

In LP3.1, I will know:	06/01/25 - (WK 2)	Key Vocabulary	Homework
how to explain, in terms of particles, how energy is transferred; how to identify waste/useful energy transfers; how to construct Sankey Diagrams to represent energy transfers.		Energy	Learn spellings

In LP3.2, I will know:	13/01/25 - (WK 1)	Key Vocabulary	Homework
how to compare the advantages and disadvantages of using renewable and non-renewable energy resources; how to explain the difference between energy and power; the process of thermal conduction within a material.		Renewable	Learning definitions

In LP3.3, I will know:	20/01/25 - (WK 2)	Key Vocabulary	Homework
how to use knowledge of particles and density to explain how convection currents occur; how to explain how energy is transferred by radiation; how to explain that the objects in the night sky consist of many different objects, at vastly different distances.		Conduction	Knowledge organiser flipper

In LP3.4, I will know:	27/01/25 - (WK 1)	Key Vocabulary	Homework
how to describe how planets orbit the Sun in similar ways to the Earth; how day and night occur, involving the Earth's rotation; how to explain why the Earth experiences different seasons, due to their relative position to the Sun.		Radiation	10 core questions
Extended Task.			

In LP3.5, I will know:	03/02/25 - (WK 2)	Key Vocabulary	Homework
how to describe the process of a solar and a lunar eclipse; how to recognise that stars and galaxies are spread throughout the universe; how to describe gravity as an attractive force between objects with mass.		Eclipse	Extended literacy task

In LP3.6, I will know:	10/02/25 - (WK 1)	Key Vocabulary	Homework
how to plan and write a method to complete an investigation on weight on different planets; how to conduct a practical investigating weight on different planets; how to analyse results of weight investigation and draw a graph.		Gravity	10 core questions

LP3 RLW, I will:	24/02/25 - (WK 2)		
review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.		Revision	Revision

In LP3.7, I will know:	03/03/25 - (WK 1)	Key Vocabulary	Homework
the meaning of the terms ecosystem, community, population, habitat and niche; the link between food chains and energy; how to construct pyramid of numbers and biomass.		Ecosystem	Extended exam question
Extended Task.			

Resources to support learning:
Knowledge Organiser, Science booklets, BBC bitesize, Carousel learning, MS Teams, OAK academy.

FFET Award Challenge for this Learning Programme:
Watch the Brian Cox series: wonders of the universe. Write a short journal of what you have learnt.

