

Year 7 Science

Learning Programme 5

The LORIC skill focus for his LP is: COMMUNICATION.

The Moral Virtues focus for this LP are: COURAGE and HUMILITY.

Courage - Acting with bravery and overcoming fears.

Humility - Having a modest view of oneself.

What will I be learning about in this Learning Programme?

You will be learning about polymers, chromatography and light waves.

Where have I seen this learning before?

You will have seen this learning in primary school and also in real life.

What could I use it for?

You could use this to go on and study for a degree in materials science.

Literacy:

- 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

In LP5.1, I will know:	11/05/26 - (WK 1)	Corrosion	Homework
how to suggest advantages and disadvantages of composite properties; how to explain whether or not filtering can be used in given situations; how to discuss whether evaporation or distillation would be suitable for separating a mixture.			Complete Sparx Science task
In LP5.2, I will know:	18/05/26 - (WK 2)	Polymer	Homework
how to follow a method and complete the rock salt practical; how to compare evaporation and distillation; how to analyse chromatograms to identify substances in mixtures.			Complete Sparx Science task
LP5 RLW, I will:	01/06/26 - (WK 1)	Review	Homework
review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.			Complete Sparx Science task
In LP5.3, I will know:	08/05/26 - (WK 2)	Chromatography	Homework
how to analyse chromatograms to identify substances in mixtures; how to complete an investigation to show how mixtures can be separated by chromatography; how to complete a numeracy task. Extended Task.			Complete Sparx Science task
In LP5.4, I will know:	15/06/26 - (WK 1)	Assessment	Homework
how to revise for a summative assessment; how to complete a summative assessment; how to review the summative assessment.			Complete Sparx Science task
In LP5.5, I will know:	22/06/26 - (WK 2)	Frequency	Homework
that transverse waves can be reflected by observing waves; how to describe sound as the transfer of energy through vibrations and explain why sound cannot travel through a vacuum; how to complete an investigation on how sound travels using string phones.			Complete Sparx Science task
In LP5.6, I will know:	29/06/26 - (WK 1)	Reflection	Homework
how to use frequency and wavelength to calculate wave speed; how to describe the relationship between frequency and pitch; how light will interact with different materials. Extended Task.			Complete Sparx Science task
In LP5.7, I will know:	06/07/26 - (WK 2)	Refraction	Homework
how to draw a ray diagram showing how an image is formed in a plane mirror, and complete a practical to demonstrate specular reflection; what happens when light is refracted; how to complete a practical to demonstrate the concept of refraction.			Complete Sparx Science task

Resources to support learning:

Booklets, BBC bitesize separation techniques, BBC bitesize light waves, SPARX science, EPC knowledge organiser.

FFET Award Challenge for this Learning Programme:

Design a new product from a composite and explain what it would be used for.

