

Year 8 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.		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		
What will I be learning about in this Learning Programme? To understand what a wave is, how sound and light travel by waves and the different properties of light waves.				
Where have I seen this learning before? Light and properties of light waves in KS2. Sound waves in KS2 and year 7. What could I use it for? GCSE physics, A-level physics and BTEC applied science.				
In LP5.1, I will know: how to use some sampling techniques; how to use quadrants to investigate samples on a field; how to identify patterns in observations from wave experiments and compare the properties of waves and their features.		12/05/25 - (WK 1)	Key Vocabulary	Homework
			Amplitude	Learn spellings
In LP5.2, I will know: that transverse waves can be reflected by observing waves; 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.		19/05/25 - (WK 2)	Key Vocabulary	Homework
			Longitudinal	Learn definitions
LP5 RLW, I will:		02/06/25 - (WK 1)		
review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.				Revise using the techniques learned during learning review week
In LP5.3, I will know: 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.		09/05/25 - (WK 2)	Key Vocabulary	Homework
			Frequency	Knowledge organiser flipper
In LP5.4, I will know: how to revise for a summative assessment; how to complete a summative assessment; how to review the summative assessment.		16/06/25 - (WK 1)	Key Vocabulary	Homework
			Reflection	10 core questions homework
In LP5.5, I will know: 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.		23/06/25 - (WK 2)	Key Vocabulary	Homework
			Refraction	Extended literacy task
In LP5.6, I will know: the colours in white light; that an object's colour determines what wavelength is absorbed or reflected; why objects appear different colours using ideas of reflection and absorption. Extended Task.		30/06/25 - (WK 1)	Key Vocabulary	Homework
			Absorption	10 core questions homework
In LP5.7, I will know: the structures and functions of the human eye; how a pin hole camera works and how to make one; some uses and dangers of the electromagnetic spectrum.		07/06/25 - (WK 2)	Key Vocabulary	Homework
			Spectrum	Extended exam question
Resources to support learning: Booklet, Knowledge organiser, BBC bitesize, MS TEAMS and KS3 revision resources.				
FFET Award Challenge for this Learning Programme: Design a practical to investigate the effect of reflected colours of light on different coloured objects. For example, compare what a red object looks like under different colours of light. Explain why.				

PRT Task 1

PRT Task 2