

Year 9 Science

Learning Programme 4

Reading texts that pupils will study during the learning programme

Loric for LP4 is Initiative

The value we are learning about is **Justice and Integrity**:
Justice- Fair behaviour or treatment
Integrity- Being honest and having strong moral principles

Week 1: Cells, Week 3: Sound, Week 5: Light

What will I be learning about in this Learning Programme?

Students will be learning about cells and the movement of substances into and out of cells. IN addition students are learning how sound is formed and how observing oscilloscope images we can determine the properties of the sound. Students will also be learning about light and how it interacts with different

Where have I seen this learning before?

Students have studied Light and sound previously during Key stage 2

What could I use it for?

The contents of this LP contains the foundation for GCSE Physics throughout KS3 and KS4.

In LP4.1, I will know:	11/03/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
how to observe cells using microscopes; the similarities and differences between animal and plant cells; the adaptations and features of specialised cells.			microscope, observation, nucleus, mitochondria, vacuole, adaptation	Activate 2: 1.3.1-1.3.3 Progress quiz – practice
In LP4.2, I will know:	18/03/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
the process of diffusion; the process of osmosis; the features of unicellular organism.			diffusion, concentration, gradient, uni-cellular, flagellum	Activate 2: 1.3.1-1.3.3 Progress quiz – test
In LP4.3, I will know:	08/04/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
how sound waves are produced and travel; the amplitude and wavelength of an oscilloscope image; the link between frequency and wavelength. Extended Task			vibration, medium, amplitude, wavelength, frequency, longitudinal, wave	Activate 2: 1.3 & 1.4: Glossary quiz
In LP4.4, I will know:	15/04/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
the structure and function of the ear; what happens when a light ray meets a different medium;			cochlea, pinna, luminous, transparent, translucent.	Activate 2: 1.4.1-1.4.3 Progress quiz – test
In LP4.5, I will know:	22/04/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
how light is reflected from a mirror; complete week 5 assessment.			reflection, refraction, incidence, virtual, plane, normal, convex, converging	Activate 1: 1 Part 1 Checkpoint assessment – test
In LP4.6, I will know:	29/04/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
the process of refraction and the uses in lenses; the different parts of the eye and their function; Extended Task			retina pupil, iris cornea, photo receptor, optic nerve.	Activate 1: 1.1 & 1.2: Glossary quiz
In LP4.7, I will know:	06/05/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
how a microphone and speaker work; the different parts of the electromagnetic spectrum;			compression, rarefaction, ultrasound, electromagnetic spectrum, ionisation	Activate 1: 1.1.1-1.1.2 Progress quiz – test
In LP4.8, I will know:	13/05/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
the differences between transverse and longitudinal waves; how to use wave models to explain observations of wave behaviour;			longitudinal, transverse, transmission, superpose	Activate 2 4.4.1 Progress quiz – test
Resources to support learning:	Kerboodle, science text books, BBC bitesize, YouTube.			
FFET Award Challenge for this Learning Programme:	Attend an extra-curricular club, represent the academy at an event, attend an enrichment day, receive a subject praise postcard, attend a day trip, attend a head of year breakfast or afternoon tea, achieve 100 positive points on class charts, receive a letter of commendation from SLT, be invited to a wonderful Wednesday, receive a principals letter or be invited to a principals lunch, attend a residential trip, achieve the Duke of Edinburgh bronze award.			

PRT Task 1

PRT Task 2