

# Year 9 Science

## Learning Programme 4

Reading texts that pupils will study during the learning programme

Loric for LP4 is Initiative

The values we are learning about are integrity and gratitude

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

Integrity - Being honest and having strong moral principles

Gratitude - the quality of being thankful and showing appreciation

**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

**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 :	10/03/2025 - (WK 2)	Behaviour to support the values: STEPS/SLANT	Homework
how to observe cells using microscopes; the similarities and differences between animal and plant cells; the adaptations and features of specialised cells.		I will show integrity by expressing gratitude to others.	Homework tasks are located in the Knowledge Organisers
In LP4.2, I will know :	17/03/2025 - (WK 1)	Behaviour to support the values: STEPS/SLANT	Homework
the process of diffusion; the process of osmosis; the features of unicellular organism.		I will show gratitude by showing my appreciation when someone does something nice.	Homework tasks are located in the Knowledge Organisers
In LP4.3, I will know :	24/03/2025 - (WK 2)	Behaviour to support the values: STEPS/SLANT	Homework
how sound waves are produced and travel; the amplitude and wavelength of an oscilloscope image; the link between frequency and wavelength.		I will show integrity by taking responsibility for my actions whether they be good or bad.	Homework tasks are located in the Knowledge Organisers
Extended Task			
In LP4.4, I will know :	31/03/2025 - (WK 1)	Behaviour to support the values: STEPS/SLANT	Homework
the structure and function of the ear; what happens when a light ray meets a different medium; how light is reflected from a mirror.		I will show gratitude by completing a random act of kindness.	Homework tasks are located in the Knowledge Organisers
In LP4.5, I will know :	21/04/2025 - (WK 2)	Behaviour to support the values: STEPS/SLANT	Homework
the process of refraction and the uses in lenses; the different parts of the eye and their function; how a microphone and speaker work.		I will show integrity by being reliable and trustworthy.	Homework tasks are located in the Knowledge Organisers
In LP4.6, I will know :	28/04/2025 - (WK 1)	Behaviour to support the values: STEPS/SLANT	Homework
the different parts of the electromagnetic spectrum; the dangers and uses of the electromagnetic spectrum; test.		I will show gratitude by being respectful.	Homework tasks are located in the Knowledge Organisers
Extended Task			
In LP4.7, I will know :	05/05/2025 - (WK 2)	Behaviour to support the values: STEPS/SLANT	Homework
the differences between transverse and longitudinal waves; how to use wave models to explain observations of wave behaviour.		I will show integrity by showing patience and flexibility when obstacles get in the way.	Homework tasks are located in the Knowledge Organisers
Resources to support learning:			
Kerboodle, science text books, BBC bitesize, YouTube.			
FFET Award Challenge for this Learning Programme:			
Create a 3D model to show the structure of the ear.			

