

Year 11 Science Learning Programme 2

Vocabulary to be taught using the frayer model

Loric for LP1 is Organisation

The values we are learning about are compassion and honesty

Compassion - sympathy and concern for the suffering or misfortunes of others

Honesty - being truthful and refraining from cheating or lying

What will I be learning about in this Learning Programme?

This term, students are learning about key concepts in physics and biology. In physics, they explore forces, motion, velocity, and acceleration, including how to interpret graphs and calculate momentum. They study the effects of friction, braking, and terminal velocity.

Where have I seen this learning before?

Students first studied forces, motion, and basic magnetic fields in Key Stage 3, along with foundational biology topics like variation, inheritance, and evolution. These early lessons prepared them for deeper exploration of physics concepts such as acceleration and

What could I use it for?

Those wishing to go on and study science beyond GCSE will greatly benefit from this LP, careers working in engineering, building and all of the healthcare fielding are just some of the roles which use this learning.

Vector, Acceleration, Terminal, Mass, Force, Currents, Extinction

In LP2.1, I will know :	20/10/25 - (WK 2)	Behaviour to support the values: STEPS/SLANT	Homework
the difference between vectors and scalars, and be able to identify examples of each; how to describe forces between objects and calculate resultant forces. - IGNITION; how to find the centre of mass and use the parallelogram of forces to resolve vectors.		I will show honesty by accepting the consequences for my mistakes.	Homework tasks are located in the Knowledge Organisers
In LP2.2, I will know :	03/11/25 - (WK 1)	Behaviour to support the values: STEPS/SLANT	Homework
how to calculate speed and interpret distance-time graphs; the difference between speed and velocity, and how to calculate acceleration; how to interpret and draw velocity-time graphs, and calculate acceleration and distance from them.		I will show compassion by giving encouragement to others.	Homework tasks are located in the Knowledge Organisers
LP2 RLW, I will:	10/11/25 - (WK 2)	Behaviour to support the values: STEPS/SLANT	Homework
review my learning, recalling and applying key knowledge, focus on closing any gaps in my knowledge and prepare effectively for the upcoming assessments.			
In LP2.3, I will know :	17/11/25 - (WK 1)	Behaviour to support the values: STEPS/SLANT	Homework
the relationship between force, mass, and acceleration; how weight is calculated, what terminal velocity is, and how it is reached; how momentum is conserved and how forces affect stopping distances and braking. Extended Task		I will show honesty by listening to and accepting the views of others.	Homework tasks are located in the Knowledge Organisers
In LP2.4, I will know :	24/11/25 - (WK 2)	Behaviour to support the values: STEPS/SLANT	Homework
how to use the 10 week plan to revise key Biological Concepts;		I will show compassion by asking someone how they are.	Homework tasks are located in the Knowledge Organisers
In LP2.5, I will know :	01/12/25 - (WK 1)	Behaviour to support the values: STEPS/SLANT	Homework
how to use the 10 week plan to revise key Biological Concepts;		I will show honesty by telling the truth about things.	Homework tasks are located in the Knowledge Organisers
In LP2.6, I will know :	08/12/25 - (WK 2)	Behaviour to support the values: STEPS/SLANT	Homework
what magnetic fields are and how they are represented; how electric currents create magnetic fields and how to apply the right-hand rule; how the motor effect works and its applications in electric motors. Extended Task		I will show compassion by actively listening and engaging with others.	Homework tasks are located in the Knowledge Organisers
In LP2.7, I will know :	15/12/25 - (WK 1)	Behaviour to support the values: STEPS/SLANT	Homework
how fossils form, and what they tell us about extinction and past life; the key evidence that supports the theory of evolution; how and why organisms are classified into groups based on similarities.		I will show honesty by being true to myself.	Homework tasks are located in the Knowledge Organisers
Resources to support learning:			
Kerboodle			
FFET Award Challenge for this Learning Programme:			
Research and produce an information slide about cars and how they are designed to crash safely.			

PRT Task 1

PRT Task 2