

# Year 9 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?

In this LP you will learn about the importance of energy in differing contexts, the periodic table and be able work out displacement reactions.

Where have I seen this learning before?

This LP develops upon the knowledge of atomic structure and elements and how energy is transferred.

What could I use it for?

This will be used again in Y10 LP2 where the periodic table is further understood.

Energy, Temperature, Conduction, Radiation,  
Atom, Ion, Displacement Reaction

In LP2.1, I will know :	20/10/25 - (WK 2)	Behaviour to support the values: STEPS/SLANT	Homework
how to describe what work is; how to calculate work done; how simple machines operate. - IGNITION.		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 state the difference between energy and temperature; how energy is transferred by conduction; how energy is transferred by convection.		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
how energy is transferred from the sun to the Earth; how to compare insulation methods in terms of conduction, convection and radiation; how to plan and complete a practical investigating insulation methods.		I will show honesty by listening to and accepting the views of others.	Homework tasks are located in the Knowledge Organisers
Extended Task			
In LP2.4, I will know :	24/11/25 - (WK 2)	Behaviour to support the values: STEPS/SLANT	Homework
how to complete PRT for insulation practical analysis; how the atom is arranged; how the periodic table is arranged.		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 scientists brought about the modern periodic table; how to state the properties and reactivity of the Group 1 elements; how to investigate the reactivity of Group 1 elements.		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
how to state the properties and reactivity of the Group 7 elements; how to investigate the reactivity of Group 7 elements; how to carry out displacement reactions.		I will show compassion by actively listening and engaging with others.	Homework tasks are located in the Knowledge Organisers
Extended Task			
In LP2.7, I will know :	15/12/25 - (WK 1)	Behaviour to support the values: STEPS/SLANT	Homework
how to state the properties and reactivity of Group 0 elements; how to revise for end of LP assessment; how to complete the end of LP assessment.		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:			
Design a House the for future with efficient insulation.			

PRT Task 1

PRT Task 2