The Ellesmere Port C of E College

Part of the Frank Field Education Trust

Year 7 Science
Learning Programme 2

The LORIC skill focus for his LP is: ORGANISATION

The Moral Virtues focus for this LP are: COMPASSION and HONESTY

Compassion - the quality of feeling pity and concern for the sufferings or misfortunes of others.
Honesty - the quality of being truthful.

What will I be learning about in this Learning Programme?
How sound travels and the effect of particles in this process.□

Where have I seen this learning before?
Particle model and the properties of solids, liquids and gases.
Movement and dissolving of particles.□

What could I use it for?
GCSE chemistry and physics, topics around particles, elements, cells and waves.□

Literacy:
- 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

In LP2.1, I will know: 19/10/26 - (WK 2)	Key Vocabulary	Homework
my strengths and areas for development; how elements are organised in the periodic table based on their properties; how to compare and contrast Mendeleev's periodic table and the modern periodic table.□	Periodic table	Complete task on Sparx Science.
In LP2.2, I will know: 02/11/26 - (WK 1)	**Key Vocabulary**	**Homework**
how to explain the trend down group 0 of increasing boiling point in terms of atomic mass; how to relate the reactions and properties of the alkali metals to the number of electrons in their outer shell; how to predict displacement reaction outcomes of halogens other than chlorine, bromine and iodine; how to describe and explain the position of elements on the periodic table in relation to their atomic structure.□	Reactivity	Complete task on Sparx Science.
LP2 RLW, I will: 09/11/26 - (WK 2)		
review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.		Complete task on Sparx Science.
In LP2.3, I will know: 16/11/26 - (WK 1)	**Key Vocabulary**	**Homework**
how to describe sound as the transfer of energy through vibrations and explain why sound cannot travel through a vacuum; how to compare and contrast waves of different loudness using wave traces and waves of different frequency using a diagram; how to use data of different animal audible ranges to decide what sound can be heard and understand what happens to human audible range with age. "□ Extended Task.	Sound	Complete task on Sparx Science.
In LP2.4, I will know: 23/11/26 - (WK 2)	**Key Vocabulary**	**Homework**
how to explain some conditions that may reduce hearing; how to evaluate advantages and disadvantages of using ultrasound; how to explain, with reasons, different ways animals use echolocation; review and improve my learning through formative assessment and PRT.□	Audible range	Complete task on Sparx Science.
In LP2.5, I will know: 30/11/26 - (WK 1)	**Key Vocabulary**	**Homework**
how to describe the similarities and differences between plant and animal cells; how to use the microscope to identify different structures e.g. human hair, insects.□	Echo	Complete task on Sparx Science.
In LP2.6, I will know: 07/12/26 - (WK 2)	**Key Vocabulary**	**Homework**
how to label detailed drawings of animal and plant cells; how to describe examples of specialised animal and plant cells, linking structure and function; how to explain in detail the hierarchy of organisation in a multicellular organism, using a range of examples.□ Extended Task.	Cells	Complete task on Sparx Science.
In LP2.7, I will know: 14/12/26 - (WK 1)	**Key Vocabulary**	**Homework**
how to explain which substances move into and out of cells and the process of diffusion; how to describe the differences between prokaryotic and eukaryotic cells; how to explain why changes occur at different stages of the human life cycle; how to explain the main changes that take place during puberty.□ review my attainment in assessments and close gaps in my learning	Microscopes	Complete task on Sparx Science.

PRT Task 1

PRT Task 2

Resources to support learning:
EPC Knowledge Organiser, Science booklets, BBC bitesize, Synergy.□

FFET Award Challenge for this Learning Programme:
Pick an element from the Periodic table and research the origins of its name, who discovered it, it's physical and chemical properties and what it can be used for.□