The Ellesmere Port C of E College

Part of the Frank Field Education Trust

Year 7 Science
Learning Programme 4

The LORIC skill focus for his LP is: INITIATIVE.
The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.

Integrity - Having strong moral principles. I will show integrity by taking responsibility for my actions.
Gratitude - Feeling and expressing thanks. I will show gratitude by saying please and thank you.

What will I be learning about in this Learning Programme?
Health, effects of drugs on health, food tests, the digestive system, enzymes. How different substances react with each other and the requirements needed for various chemical reactions to take place. Various methods of extracting and separating different substances from mixtures and compounds.

Where have I seen this learning before?
Learning programme 1, fundamental building blocks of substances and understanding the composition of elements, compounds and mixtures.

What could I use it for?
Year 9 Chemistry and GCSE chemistry.

Literacy Non-Negotiables:
- 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
- Vocabulary to be taught using the Frayer model

In LP4.1, I will know: 09/03/26 - (WK 2)	Frayer Model Words	Homework
how to revise for a summative assessment; how to complete a summative assessment;	nutrient	Task to be completed on Sparx Science
In LP4.2, I will know: 16/03/26 - (WK 1)	**Frayer Model Words**	**Homework**
the food tests for starch, sugar, lipids, proteins and the expected results; lock and key theory to explain the specificity of enzymes; the action of amylase on starch at 2 different concentrations; some health and social issues caused by alcohol.	enzyme	Task to be completed on Sparx Science
In LP4.3, I will know: 23/03/26 - (WK 2)	**Frayer Model Words**	**Homework**
drugs in terms of medicinal/recreational/legal/illegal/regulated; addiction using the ideas of tolerance and physical/mental addiction; the stages of drug testing; thalidomide as a case study for rigorous drug testing. Extended Task.	drug	Task to be completed on Sparx Science
In LP4.4, I will know: 13/04/26 - (WK 1)	**Frayer Model Words**	**Homework**
how to revise for a formative assessment how to complete a formative assessment how to recognise compounds from their formula and explain how mixtures can be separated.	word equation	Task to be completed on Sparx Science
In LP4.5, I will know: 20/04/26 - (WK 2)	**Frayer Model Words**	**Homework**
how to construct a formula equation for a reaction without the use of word equations; how to explain the benefits and disadvantages of some oxidation reactions; how to explain the benefits and disadvantages of some decomposition reactions.	combustion	Task to be completed on Sparx Science
In LP4.6, I will know: 27/04/26 - (WK 1)	**Frayer Model Words**	**Homework**
how to predict the reactivity of unfamiliar metals with oxygen using information about their behaviour; how to predict the reactivity of unfamiliar metals with water from information about their behaviour; how to suggest ways of reducing corrosion using paint and oil. Extended Task.	reactivity	Task to be completed on Sparx Science
In LP4.7, I will know: 04/05/26 - (WK 2)	**Frayer Model Words**	**Homework**
how to explain why metals can be extracted using carbon, using the idea of displacement; how to suggest advantages and disadvantages of using polymers; how to suggest advantages and disadvantages of ceramic properties.	metal extraction	Task to be completed on Sparx Science

PRT Task 1

PRT Task 2

Resources to support learning:
Booklets, BBC bitesize, Sparx science.

FFET Award Challenge for this Learning Programme:
Design a new product from a polymer and explain what it would be used for.