

Year 10 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

wk. 1: Drug trials Wk. 3: The greenhouse effect Wk. 5: water treatment

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?

This LP is a major part of Synergy GCSE, so following this LP closely is imperative. Lifestyle and Health and preventing , treating and curing disease forms a large part of the interactions with the environment topic which leads in learning about Earth's

Where have I seen this learning before?

This LP develops knowledge of how the environment can influence our health and human impact is affecting the Earth. This builds on knowledge gained in KS4.

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 healthcare, Earth sciences, sustainability and ecology are just some of the roles which use this learning.

In LP4.1, I will know :	10/03/2025 - (WK 2)	Behaviour to support the values: STEPS/SLANT	Homework
how medicinal drugs are developed and tested; some of the risk and benefits of genetic technologies; the function, medical uses and research in stem 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
some of the benefits, risks, social and ethical issues around the use of stem cells; how to evaluate theories in the Earth's early atmosphere; the main changes in Earth's atmosphere over time, with possible causes.		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
the role of microorganisms in the cycling of materials; the processes that remove carbon dioxide from the atmosphere and return it again; how the greenhouse effect works. Extended Task		I will show integrity by taking responsibility for my actions whether they be good or bad.	Homework tasks are located in the Knowledge Organisers
In LP4.4, I will know :	31/03/2025 - (WK 1)	Behaviour to support the values: STEPS/SLANT	Homework
how to evaluate evidence for human influences on climate change; the effects of increases in greenhouse gases in the atmosphere; problems that can be caused by atmospheric pollutants.		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 importance of the water cycle to living organisms; method to produce potable water; how waste water is made safe to release into the environment.		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 relationship between communities and ecosystems; how the biotic and abiotic factors that affect populations in an ecosystem; how to measure population size using sampling techniques. Extended Task		I will show gratitude by being respectful.	Homework tasks are located in the Knowledge Organisers
In LP4.7, I will know :	05/05/2025 - (WK 2)	Behaviour to support the values: STEPS/SLANT	Homework
what is biodiversity and the human impact on biodiversity; the impact of deforestation and peat bog destruction; some of the ways people can reduce the human impact on ecosystems.		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			
FFET Award Challenge for this Learning Programme:			
Create a 3D model to show the structure of the ear.			

PRT Task 1

PRT Task 2