

Year 10 Science Learning Programme 3

Reading texts that pupils will study during
the learning programme

Loric for LP3 is Resilience

The values we are learning about are respect and justice

wk. 1: Wk. 3: Wk. 5:

Respect - a feeling of deep admiration for someone or something elicited by their abilities, qualities or achievements
Justice - fair behaviour or treatment

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 unit, so a good understanding of the topic is important.

Where have I seen this learning before?

This LP develops knowledge of how the environment can influence our health. This builds on knowledge gained in Year 8.

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, medicine and energy industries are just some of the roles which use this learning.

In LP3.1, I will know :	06/01/2025 - (WK 2)	Behaviour to support the values: STEPS/SLANT	Homework
what health is; what is meant by communicable disease; how smoking affects the risk of developing cardiovascular disease.		I will show respect by actively listening to others	Homework tasks are located in the Knowledge Organisers
In LP3.2, I will know :	13/01/2025 - (WK 1)	Behaviour to support the values: STEPS/SLANT	Homework
the effect of diet and exercise on the development of obesity; how leaky heart valves can be replaced; some of the risks and benefits of heart transplants.		I will show justice by speaking up when something is not right	Homework tasks are located in the Knowledge Organisers
In LP3.3, I will know :	20/01/2025 - (WK 2)	Behaviour to support the values: STEPS/SLANT	Homework
why it is important to control your internal environment; the role of the pancreas in monitoring and controlling blood glucose concentration; the differences between how Type 1 and Type 2 diabetes are treated.		I will show respect by being punctual and not wasting the time of others	Homework tasks are located in the Knowledge Organisers
Extended Task			
In LP3.4, I will know :	27/01/2025 - (WK 1)	Behaviour to support the values: STEPS/SLANT	Homework
the roles of hormones in human reproduction; how atoms can gain energy; what a radioactive substance is.		I will show justice by being inclusive and accepting everyone regardless of our differences	Homework tasks are located in the Knowledge Organisers
In LP3.5, I will know :	03/02/2025 - (WK 2)	Behaviour to support the values: STEPS/SLANT	Homework
what is meant by the half-life of a radioactive source; how far each type of radiation can travel in air; what is made by irradiation and contamination.		I will show respect by taking care of the school property	Homework tasks are located in the Knowledge Organisers
In LP3.6, I will know :	10/02/2025 - (WK 1)	Behaviour to support the values: STEPS/SLANT	Homework
what pathogens are; how the spread of disease can be reduced or prevented; some examples of diseases caused by viruses including measles and HIV/AIDS in human.		I will show justice by supporting others of seeking help when required	Homework tasks are located in the Knowledge Organisers
Extended Task			
LP3 RLW, I will:	24/02/2025 - (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.		I will show respect by actively listening to others	Homework tasks are located in the Knowledge Organisers
In LP3.7, I will know :	03/03/2025 - (WK 1)	Behaviour to support the values: STEPS/SLANT	Homework
how to state how your body stops pathogens getting in; how to explain how vaccination works; how to explain what medicines are and how some of them work.		I will show respect by recognising and celebrating the achievements of myself and others	Homework tasks are located in the Knowledge Organisers
Resources to support learning:			
Kerboodle, Bitesize, GCSEPod			
FFET Award Challenge for this Learning Programme:			
Year 10 Challenge: Radioactivity			
Challenge Title: "The Radioactive Hero!"			
Radioactivity has always been portrayed as dangerous, but could it also create a hero? Design a comic book character who gains extraordinary powers from radioactivity.			
Task:			
Create a hero with powers inspired by real-life properties of radioactivity, such as alpha particles, gamma rays, or radioactive isotopes.			
What to Create:			
A comic strip (3–6 panels) showcasing your hero in action.			
A backstory (200–300 words) explaining how they gained their powers and their mission.			
Judging Criteria:			
Creativity of the character, scientific connections to radioactivity, and the quality of the comic/storytelling.			

