

Year 7 Science Learning Programme 2

The LORIC skill focus for this LP is: ORGANISATION.

The Moral Values foci for this LP 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?

Students will learn how nutrients in food provide energy, support growth, and help maintain a healthy lifestyle, as well as how digestive systems break down food and absorb nutrients. They will investigate how waves transfer energy, including sound and light waves, and how their properties affect everyday technologies. Students will also learn how acids react with different substances, how rusting occurs, and the methods used to prevent corrosion.

Where have I seen this learning before?

At KS2, students will have learned about healthy eating and the main food groups, investigated how sounds are made and heard, and explored how light travels and forms shadows. They will also have observed everyday chemical changes, such as mixing substances, and learned about materials changing over time, including simple examples of rusting.

What could I use it for?

These topics can support careers in nutrition, dietetics, sports science, medicine, and healthcare, where understanding food and the body's needs is essential. Knowledge of waves is important for careers in engineering, telecommunications, acoustics, medicine (such as ultrasound imaging), and physics, where sound, light, and other waves are used in technology and research. Understanding acids and rusting is valuable for careers in chemistry, materials science, manufacturing, and engineering.

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 LP2.1, I will know:	19/10/26 - (WK 2)	Frayer Model Words	Homework
IGNITION - how to investigate the properties of waves. the importance of waves in our everyday life. how explain how sound travels.		Transmission	Sparx Science
In LP2.2, I will know:	02/11/26 - (WK 1)	Frayer Model Words	Homework
how to investigate reflection. how to calculate the speed of sound. how the ear is adapted to be able to detect sound.		Reflection	Sparx Science
LP2 RLW, I will:	09/11/26 - (WK 2)	Frayer Model Words	Homework
review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.		Sound	Sparx Science
In LP2.3, I will know:	16/11/26 - (WK 1)	Frayer Model Words	Homework
how to explain the role of different nutrients in our diet. how to explain the importance of a balanced diet. how to investigate the amount of energy in our food.		Calories	Sparx Science
Extended Task.			
In LP2.4, I will know:	23/11/26 - (WK 2)	Frayer Model Words	Homework
how nutrient deficiencies lead to health defects. how to prepare and complete a knowledge check. how to carry out a PRT.		Balanced Diet	Sparx Science
In LP2.5, I will know:	30/11/26 - (WK 1)	Frayer Model Words	Homework
how to explain the role of different organs in the digestive system. how to compare metals and non-metals how oxidation occurs.		Oxidation	Sparx Science
In LP2.6, I will know:	07/12/26 - (WK 2)	Frayer Model Words	Homework
how to explain what is meant by an acid. How to investigate the reaction between acids and metals. How to explain what is meant by rusting.		Acid	Sparx Science
Extended Task.			
In LP2.7, I will know:	14/12/26 - (WK 1)	Frayer Model Words	Homework
how to revise for knowledge check. how to complete a knowledge check. how to complete a PRT.		Rusting	Sparx Science
Resources to support learning:			
SPARX Science			
FFET Award Challenge for this Learning Programme:			
Write a meal plan for an athlete and explain what nutrients would be most beneficial and when for optimal performance.			

PRT Task 1

PRT Task 2