

Year 7 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

Week 1: Cells and Microscopes, Week 3: Tissues and Organ Systems, Week 5: Muscles

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?

Students will be learning about the fundamental building blocks of life, cells. They will also learn about how movement happens in the body and human reproduction.

Where have I seen this learning before?

Students will have some prior knowledge about human bodies and movement from KS2.

What could I use it for?

The contents of this LP contains the foundation for Biology throughout KS3 and KS4.

In LP3.1, I will know : 06/01/2025 - (WK 2)

Behaviour to support the values: STEPS/SLANT

Homework

how to draw and label a plant and animal cell;
how to observe cells using a microscope -RP;
differences between plant and animal cells

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

examples of specialized plant and animal cells
substances that move in and out of cells and describe the process of diffusion
how to investigate the process of diffusion - RP.

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

how unicellular organisms are adapted to carry out different functions
examples of tissues, organs and organ systems;
why multi-cellular organisms need organ systems to keep their cells alive.

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

how the properties of bones link to their function in the body;
where joints are found in the body;
how to test my understanding and complete Assessment 1.

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

how to review an assessment and complete a PRT task;
how to measure the force exerted by different muscles
how antagonistic muscles work and cause movement

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

the main changes that take place during puberty
the main structures in the male and female reproductive systems, including gametes
the process of fertilization

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

what happens during gestation and birth;
the main stages of the menstrual cycle
how to test my understanding and complete Assessment 2.

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

FFET Award Challenge for this Learning Programme:

Year 7 Challenge: The Human Body

Challenge Title: "Design Your Own Superhuman!"

Imagine you are a genetic engineer tasked with creating a superhuman to survive extreme environments, like the deep ocean or outer space.

Task:

Design a superhuman with enhanced features based on the human body. For example, could they have gills for underwater breathing or super-strong bones for zero gravity?

What to Create:

A labeled diagram of your superhuman with annotated explanations of each feature.

A short story (200-300 words) describing a day in the life of your superhuman in their environment.

Judging Criteria:

Creativity, scientific reasoning behind the features, and imaginative storytelling.

