



Homework

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Checkpoint quiz 12.6

Checkpoint quiz 12.7

Homework 12.5

Homework 12.2

Homework 11.3

Checkpoint quiz 9.2

Checkpoint quiz 10.2

Year 11 Science Learning Programme 4

Reading texts that pupils will study during the learning programme

Loric for LP4 is Initiative

The value we are learning aboutis Justice and Integrity:

Justice-Fairbehaviourortreatment

Integrity-Being honest and having strong moral principles

What will I be learning about in this Learning Programme?

Students will be learning about ecology, using resources and electromagnetism.

11/03/24 - (WK1)

18/03/24 - (WK 2)

08/04/24 - (WK1)

how to find the mean, median and mode using random sampling techniques;

how the numbers of predators and prey in a community are related;

the processes that remove and return carbon dioxide to the atmosphere:

the effects of human population on the Earth and its resources.

the effects of global warming and ways to reduce human impact.

Where have I seen this learning before?

Students have previously learnt about ecology in Year 7.

the relationship between communities and ecosystems;

how plants and animals are adapted to survive.

how plants and animals compete for resources;

What could I use it for?

In LP4.2, I will know:

the importance of decay.

In LP4.3, I will know:

Students will benefit greatly from this LP if they study science beyond GCSE. It will also be of great use in careers such as Chemical engineer or ecologist.

PR Focus

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Kev Vocabulary

interdependence

Key Vocabulary

predators, prey,

Key Vocabulary

carbon cycle,

biodiversity

Key Vocabulary

peat bogs, global

Key Vocabulary

renewable, non-

renewable, Phyto

Kev Vocabulary

magnetic field, bar

magnet, core,

Key Vocabulary

force, current

ionising.

KeyVocabulary

alpha, beta, gamma,

motor, magnetic field,

mining, finite, potable,

warmings, deforestation

communities, quadrat,

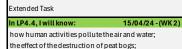
decomposers, consumer,

abundance, transect

mean, mode, median,

Week 1: sampling, Week 3: carbon cycle, Week 5: radioactivity





In LP4.5, I will know: 22/04/24 - (WK1) renewable and non-renewable resources;

methods of purifying water; how to evaluate biological methods of metal extractions.

In LP4.6, I will know: 29/04/24 - (WK 2) the life cycle of different materials and products; the shape of the magnetic field on a bar magnet; how to use an electromagnet.

Extended Task

In LP4.7, I will know: 06/05/24 - (WK1) how to make a motor; the properties of alpha, beta and gammar adiation; how the nuclear model of the atomwas established.

In LP4.8, I will know: 13/05/24 - (WK2)

how to represent the emission of a particle from a nucleus; how to calculate the half life of a radioactive source;

Resources to support learning:

FFET Award Challenge for this Learning Programme:

Attend an extra-curricular club, represent the academy at an event, attend an enrichment day, receive a subject praise postcard, attend a day trip, attend a head of year breakfast or afternoon tea, achieve 100 positive points on class charts, receive a letter or be invited to a principals lunch, attend a residential trip, achieve the Duke of Edinburgh bronze award.