



Homework

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Year 10 Science Learning Programme 5

Reading texts that pupils will study during the learning programme

Loric for LP5 is communication

The value we are learning about is compassion

Compassion - Sympathy and concern for the suffering or misfortunes of other

What will I be learning about in this Learning Programme?

Students will be learning about genetics, in heritance & evolution, followed by learning about the Periodic table and chemical quantities.

Where have I seen this learning before?

Pupils have explored variation, inheritance and the periodic table in KS3.

What could I use it for?

Variation, genetics and chemical calculations are all built upon in higher education science courses. This knowledge is also useful for someone pursuing a

career in medicine, scientific research and chemical engineering

IN LP5.1, I WILL KNOW:	20/05/24 - (WK1)
how to describe genes and what a genome is;	
how to interpret and construct punnett square diagrams;	
how sex is inherited.	

In LP5.2, I will know: 03/06/24-(WK2) PR Focus Key Vocabulary Homework

PR Focus

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Key Vocabulary

Key Vocabulary

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why identical twins are not exactly the same in every way

how evolution occurs via natural selection;

the role of isolation in evolution.



In LP5.3, I will know: 10/06/24 - (WK1) PR Focus Key Vocabulary Homework

how fossils can provide evidence for evolution;

the basic principles of classification;

how selective breeding works, leading to genetic engineering including its benefits and risks

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In LP5.4, I will know: 17/06/24 - (WK 2)

how the periodic table was developed over time;

 $how\ metals\ and\ non-metals\ differ, including\ the\ electronic\ structures\ and\ their\ positions\ in\ the\ periodic\ table;$

the physical and chemical properties of group 1 elements.

In LP5.5, I will know: 24/06/24 - (WK 1)

the physical and chemical properties of group 7 elements;

the definition of element and compound;

how to describe what happens to an atom in a chemical reaction.

what balanced symbol equations tell you about a chemical reaction.

In LP5.6, I will know: 01/07/24 - (WK 2)

 $how \ to \ calculate \ the \ relative \ atomic \ mass \ of \ an \ element \ and \ the \ relative formula \ mass \ of \ a \ compound;$

how to calculate the amount of substance in moles, given the mass of a substance;

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in LP5.7, I will know: 08/07/24 - (WK1) PR Focus Key Vocabulary Homework

 $why a \ limiting \ quantity \ of \ a \ reactant \ affects \ the \ amount \ of \ product \ it \ is \ possible \ to \ obtain;$

that the concentration of solutions can be expressed in grams per dm-3;

how to calculate the concentration using mass and volume.

experience week.

In LP5.8, I will know: experience week. 24-(WK2) PRFocus KeyVocabulary Homework

Resources to support learning:

Kerboodle, CGP Revision Guide, Knowledge Organiser.

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 beinvited to a principals lunch, attend a residential trip, achieve the Duke of Edinburgh bronze award.



