

Year 8 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 chemical energy and types of reaction.

Where have I seen this learning before?

Students have previously learnt about chemical reactions and energy changes in Year 7.

What could I use it for?

Students will benefit greatly from this LP if they study Chemistry beyond GCSE. It will also be of great use in careers in chemical engineering, metal work or the energy sector.

Week 1: Equations, Week 3: Combustion, Week 5: Conservation of Mass.

| In LP5.1, I will know: | 20/05/24 - (WK 1) | PR Focus | Key Vocabulary | Homework |
|--|-------------------|----------|----------------|---------------------------|
| the model of chemical change and conservation of mass; how to write word equations from information about chemical reactions; literacy task LP5.1. | | | | Knowledge organiser tasks |
| In LP5.2, I will know: | 03/06/24 - (WK 2) | PR Focus | Key Vocabulary | Homework |
| how to use particle diagrams to show what happens in a chemical reaction; the energy transfers involved in combustion; how to write word equations for combustion reactions. | | | | Knowledge organiser tasks |
| In LP5.3, I will know: | 10/06/24 - (WK 1) | PR Focus | Key Vocabulary | Homework |
| how to use particle diagrams what happens in combustion reactions; how to predict the products of the combustion of a given reactants; literacy task LP5.3. Extended Task | | | | Knowledge organiser tasks |
| In LP5.4, I will know: | 17/06/24 - (WK 2) | PR Focus | Key Vocabulary | Homework |
| what thermal decomposition is; how to write word equations for decomposition reactions; how to use particle diagrams to describe what happens in decomposition reactions. | | | | Knowledge organiser tasks |
| In LP5.5, I will know: | 24/06/24 - (WK 1) | PR Focus | Key Vocabulary | Homework |
| how to review learning for assessment; how to complete week 5 assessment; literacy task LP5.5. | | | | Knowledge organiser tasks |
| In LP5.6, I will know: | 01/07/24 - (WK 2) | PR Focus | Key Vocabulary | Homework |
| how to predict the products of the decomposition of a given reactant; what is meant by conservation of mass; how to explain observations about mass in a chemical or physical change. Extended Task | | | | Knowledge organiser tasks |
| In LP5.7, I will know: | 08/07/24 - (WK 1) | PR Focus | Key Vocabulary | Homework |
| how to calculate masses of reactants and products; how to balance symbol equations; how to describe exothermic and endothermic changes. | | | | Knowledge organiser tasks |
| In LP5.8, I will know: | 15/07/24 - (WK 2) | PR Focus | Key Vocabulary | Homework |
| experience week. | | | | Knowledge organiser tasks |
| Resources to support learning: | | | | |
| Kerboodle, Activate books 1 and 2 and BBC Bitesize | | | | |
| 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 of commendation from SLT, be invited to a wonderful Wednesday, receive a principals letter or be invited to a principals lunch, attend a residential trip, achieve the Duke of Edinburgh bronze award. | | | | |

PRT Task 1

PRT Task 2