



Year 11 Chemistry Reading texts that pupils will study during the learning **Learning Programme 3** programme Loric for LP3 is Resilience Respect - a feeling of deep admiration for someone or something elicited by their abilities, qualities or achievements ustice - fair behaviour or treatment What will I be learning about in this Learning Programme? This LP is an important part of the Chemistry GCSE so following this LP closely is imperative, The Earth's Atmosphere and using resources are two important topics so good understanding of them is important Where have I seen this learning before? This LP develops knowledge of the atmosphere and using resources which have previously been studied in in year 7 and in year 8 What could I use it for? Those wishing to go on and study science beyond GCSE will greatly benefit from this LP, careers working in engineering and environmental sciences are just some of he roles which use this learning. 06/01/2025 - (WK 2) Behaviour to support the values: STEPS/SLANT how to prepare for mock exams; Homework tasks are located in the Knowledge Organisers how to prepare for mock exams. I will show respect by actively listening to others 13/01/2025 - (WK 1) Behaviour to support the values: STEPS/SLANT how to interpret evidence and evaluate different theories about the Earths early atmosphere; the main changes in the atmosphere and the likely causes of these changes. Homework tasks are located in the Knowledge Organisers I will show justice by speaking up when something is not right In LP3.3, I will know: 20/01/2025 - (WK 2) Behaviour to support the values: STEPS/SLANT how the greenhouse effect operates; I will show respect by being punctual and not wasting the time of Homework tasks are located in the Knowledge Organisers the problems caused by increased amounts of pollutants in the air. Extended Task 27/01/2025 - (WK 1) Behaviour to support the values: STEPS/SLANT In LP3.4, I will know how to distinguish between finite and renewable resources, given appropriate information; the differences between potable water and pure water Homework tasks are located in the Knowledge Organisers I will show justice by being inclusive and accepting everyone regardless of our differences 03/02/2025 - (WK 2) Behaviour to support the values: STEPS/SLANT how waste water is made safe to release into the environment. (RP - water purification): how to evaluate alternative biological methods of metal extraction, given appropriate Homework tasks are located in the Knowledge Organisers I will show respect by taking care of the school property 10/02/2025 - (WK 1) Behaviour to support the values: STEPS/SLANT how to carry out simple comparative life cycle assessments for shopping bags made with plastic and paper: Homework tasks are located in the Knowledge Organisers how to evaluate ways of reducing the use of limited supplies of metal ores, given appropriate information. I will show justice by supporting others of seeking help when required Extended Task 24/02/2025 - (WK 2) Behaviour to support the values: STEPS/SLANT review my learning, recalling and applying key knowledge, focus on closing any gaps in my Homework tasks are located in the Knowledge Organisers knowledge and prepare effectively for the upcoming assessments. I will show respect by actively listening to others 03/03/2025 - (WK 1) Behaviour to support the values: STEPS/SLANT how experimental results can be used to show the conditions necessary for rusting (MS); why metals are alloyed. Homework tasks are located in the Knowledge Organisers I will show respect by recognising and celebrating the achievements of myself and others Resources to support learning Kerboodle, Bitesize, GCSEPod FFET Award Challenge for this Learning Progr Year 11 Challenge: Organic Chemistry Challenge Title: "The Molecule of the Future!" Design a new organic molecule that solves a global problem, such as reducing pollution, curing a disease, or creating sustainable materials.



What to Create:

Judging Criteria: Originality, scient

Design and name your molecule, explaining how its structure allows it to perform its function.

A diagram showing the molecular structure, annotated with explanations of functional groups and bonding.
A scientific pitch (200–300 words) explaining how the molecule could be produced and its real-world application.