

Year 9, C6 Reactions 2, Science

Rationale and Context of Unit:	Core curriculum content:	Tier 2 & Tier 3 vocabulary explicitly taught:
<ul style="list-style-type: none"> <i>This unit is in Year 9 Chemistry as it builds on the topics have learnt in Year 8, C3 Earth, C4 Matter, and is seen again at of GCSE. There are some of the most challenging concepts which is why it is taught in Year 9.</i> <i>This unit links to the GCSE Earth's resources topics C12, C13, C14 and C15.</i> 	<ul style="list-style-type: none"> Chemical word equations Thermal decomposition Conservations of mass in reactions Balancing chemical equations Combustion Exothermic reactions Endothermic reactions 	<ul style="list-style-type: none"> <i>Thermal decomposition</i> <i>Subscript</i> <i>Superscript</i> <i>Combustion</i> <i>Complete</i> <i>Incomplete</i> <i>Exothermic</i> <i>Endothermic</i>
Challenge and Support:	World wide learning/ links to 21 st century:	Cultural capital/ Industry/ Enrichment:
<p><i>Each lesson plan has activities broken down for the ability of the students. Most activities have a LPA, MPA, HPA and some have a CHAL.</i></p> <p><i>Example includes “_Pupils should be able to name the metal formed and may have ideas about the bubbling seen at the other electrode”</i></p>	<ul style="list-style-type: none"> Where in the world will be affected by climate change the most (6 places) (L4) 	<ul style="list-style-type: none"> Renewable energy Material science Waste disposal/recycling
Historical, Social, Moral, Spiritual, Cultural context:	Cross curricular links/ literacy/numeracy:	Common misconceptions:
<ul style="list-style-type: none"> The climate emergency – renewable and non-renewable energy resources (L6) Who moral responsibility to reduce, recycle and reuse (L10) 	<ul style="list-style-type: none"> <i>Cross-curricula links: DT – uses of both materials and reuse of material.</i> <i>Numeracy: calculations and graphing of climate change and temperature.</i> <i>Literacy: extended writing piece – letter writing to persuade people to recycle (L10) extended writing (L6)</i> 	<ul style="list-style-type: none"> <i>Recycling is not always better than renewing</i> <i>Climate change is not real</i> <i>The Earth has enough resources for our lifetimes using them at the current rate</i> <i>Humans are responsible for climate change</i>

Assessment timeline:

- *Practical skills monitored by teacher when conducting experiments.*
- *Assessed practical skill: 'explaining ideas' (lesson 6/12).*
- *End of topic exam to assess pupil progress at the end of test.*
- *All lessons have success criteria presented to pupils at the start of the lesson.*
- *Assessed tasks (highlighted above) will have feedback to help improve pupils understanding after they have completed the assessment.*

Home learning

- *Seneca online learning or homework booklet – 2 pages.*
- *Scholarly reading <https://www.research-collection.ethz.ch/bitstream/handle/20.500.11850/426900/3/1-s2.0-S0921344920303591-main.pdf>*

Feedback

- *Students will have feedback on their skills assessment midway through this unit.*
 - *Students will self-assess their home learning page of the homework booklet.*
 - *Students will have feedback on their end of topic text which will be teacher assessed also*
 - *Students will self-assess their home learning page of the homework booklet.*
- Students will generate self-feedback on their skills assessment at the end of this unit this unit.*

Length of unit (duration indicated in lessons)

1	2	3	4	5	6	7	8	9	10	11	12
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