



Sandon Road, Meir, Stoke-on-Trent, ST3 7DF Telephone: 01782 377100 Fax: 01782 377101

Email: info@omera.co.uk Website: www.ormistonmeridianacademy.co.uk

Principal: Mrs C Stanyer

Subject: Chemistry (Trilogy HT) Year 11 Curriculum Map 2020 – 2021

Resources:

Week Commencing	Topic (including links to additional resources)	Links to Additional Resources
1 st September	<u>5.7.1 Carbon Compounds as Fuels and Feedstock</u> What is the test for alkanes and alkenes? What do we use alkenes for?	https://www.omerascience.co.uk/organic-chemistry https://www.bbc.co.uk/bitesize/topics/z9488mn https://www.my-gcsescience.com/aqa/chemistry/alkenes/
7 th September	<u>5.7.1 Carbon Compounds as Fuels and Feedstock</u> What are some common polymers produced from alkenes, and how are they made?	https://www.omerascience.co.uk/organic-chemistry https://www.bbc.co.uk/bitesize/topics/z9488mn
14 th September	<u>5.8.1 Purity, Formulations, and Chromatography</u> What is meant by the term "purity" in chemistry? What are some examples of pure and impure substances? How does the purity of a substance alter its properties and uses?	https://www.omerascience.co.uk/chemical-analysis https://www.bbc.co.uk/bitesize/topics/zgbccj6
21 st September	<u>5.8.1 Purity, Formulations, and Chromatography</u> What is a formulation in chemistry? What are some examples of formulations? What happens if a formulation is not made correctly, e.g. in medicine?	https://www.omerascience.co.uk/chemical-analysis https://www.bbc.co.uk/bitesize/topics/zgbccj6 https://www.my-gcsescience.com/aqa/chemistry/purity-and-formulations/
28 th September	<u>5.8.1 Purity, Formulations, and Chromatography</u> What is the process of chromatography? How does it work? Required Practical- Investigation; how do you use chromatography to determine the contents of a mixture.	https://www.omerascience.co.uk/chemical-analysis https://www.bbc.co.uk/bitesize/topics/zgbccj6 https://www.my-gcsescience.com/aqa/chemistry/chromatography/
5 th October	<u>5.8.1 Purity, Formulations, and Chromatography</u> What are the limitations of chromatography? What are alternative methods of chemical analysis, and who might use them?	https://www.omerascience.co.uk/chemical-analysis https://www.bbc.co.uk/bitesize/topics/zgbccj6 https://www.my-gcsescience.com/aqa/chemistry/instrumental-methods-of-analysis/
12 th October	<u>5.8.2 Identification of Common Gases</u> What are the tests for CO ₂ , O ₂ , H ₂ , Cl ₂ and H ₂ O? Investigation; applying these tests to a practical situation.	https://www.omerascience.co.uk/chemical-analysis https://www.bbc.co.uk/bitesize/topics/zgbccj6 https://www.my-gcsescience.com/aqa/chemistry/gas-tests/
19 th October (inset Friday 22 nd)	<u>5.8.2 Identification of Common Gases</u> How are gas tests used in industry, and why might they be important?	https://www.omerascience.co.uk/chemical-analysis https://www.bbc.co.uk/bitesize/topics/zgbccj6

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Half Term		
2 nd November	<p><u>5.9.1 The composition and evolution of the Earth's atmosphere.</u> What was Earth's early atmosphere like? What events produced gases in the early atmosphere? What events changed the percentages of gases over time?</p>	<p>https://www.omerascience.co.uk/atmospheric-pollutants https://www.bbc.co.uk/bitesize/topics/zysvv9q https://www.my-gcsescience.com/aqa/chemistry/the-earths-atmosphere/</p>
9 th November		AR1 ASSESSMENTS
16 th November		AR1 ASSESSMENTS
23 rd November	<p><u>5.9.1 The composition and evolution of the Earth's atmosphere.</u> What are the "greenhouse gases" and what events/actions cause their production? How do greenhouse gases lead to global warming? What can be done to limit the impact of greenhouse gases on the climate?</p>	<p>https://www.omerascience.co.uk/atmospheric-pollutants https://www.bbc.co.uk/bitesize/topics/zysvv9q https://www.my-gcsescience.com/aqa/chemistry/greenhouse-gases-and-global-warming/</p>
30 th November	<p><u>5.9.1 The composition and evolution of the Earth's atmosphere.</u> What is climate change, and what issues does it pose to life on Earth? What is a "carbon footprint", and how is it calculated? How can we reduce our carbon footprint?</p>	<p>https://www.omerascience.co.uk/atmospheric-pollutants https://www.bbc.co.uk/bitesize/topics/zysvv9q</p>
7 th December	<p><u>5.9.1 The composition and evolution of the Earth's atmosphere.</u> What are the products of combustion of fuels? What effect does each pollutant have on the atmosphere/environment?</p>	<p>https://www.omerascience.co.uk/atmospheric-pollutants https://www.bbc.co.uk/bitesize/topics/zysvv9q https://www.my-gcsescience.com/aqa/chemistry/atmospheric-pollutants/</p>
14 th December	<p><u>5.10 Using Resources</u> What is potable water? How is potable water different to freshwater/groundwater/surface water?</p>	<p>https://www.my-gcsescience.com/aqa/chemistry/potable-water/ https://www.omerascience.co.uk/using-resources</p>
Christmas Holiday		
4 th January	<p><u>5.10 Using Resources</u> Required Practical: analysing water samples and purifying water. Analysis of results.</p>	
11 th January	<p><u>5.10 Using Resources</u> What is waste water? How is waste water treated to make it potable? What are some issues with waste water?</p>	
18 th January	<p><u>5.10 Using Resources</u> HTWhat are some alternative methods of extracting metals? Why are we increasingly moving towards alternative methods of metal extraction? Case study; the rare metals used in smart phones and how big companies are recycling metals.</p>	<p>https://www.my-gcsescience.com/aqa/chemistry/alternative-methods-of-extracting-metals/</p>
25 th January		FULL MOCK EXAMS

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1 st February		FULL MOCK EXAMS
8 th February (Inset 12 th February)		FULL MOCK EXAMS
February Half Term		
22 nd February	<p><u>5.10 Using Resources</u> What is a "Life Cycle Assessment (LCA)"? How is an LCA carried out? Case study- the LCA for an Audi. How can we change an LCA for a product, as consumers?</p>	https://www.my-gcsescience.com/aga/chemistry/life-cycle-assessment/
1 st March	<p><u>5.10 Using Resources</u> What is meant by the term "corrosion"? What issues does corrosion produce? How can we prevent corrosion?</p>	https://www.my-gcsescience.com/aga/chemistry/corrosion-and-rusting/
8 th March	<p><u>5.10 Using Resources</u> Case study- Golden Gate Bridge- the never-ending paint job. Investigation; preventing rust on a nail. Analysis of results.</p>	
15 th March	<p><u>5.10 Using Resources</u> What do the terms "ceramic", "polymer", "alloy" and "composite" mean in chemistry? How are each of these materials produced? What are the advantages/disadvantages of each?</p>	https://www.my-gcsescience.com/aga/chemistry/using-materials/
22 nd March	Revision	
29 th March	Revision	
Easter Holiday		
19 th April	Revision	
26 th April	Revision	
3 rd May	Revision	
10 th May	Revision	
17 th May		
24 th May		
7 th June		

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14 th June		
21 st June		
28 th June		
5 th July		
12 th July		
19 th July (School closed from 22 nd)		

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