

Subject	Year	Term
Science	9	5 or 6
Topic		
C9 Chemistry of the Atmosphere		
Content (Intent)		
Prior Learning (Topic) Y8: 8C2 Chemical Reactions and the Earth, Y9: C7 Organic Chemistry		
• The composition of air • How atmosphere has changed over time since the Earth was formed • Greenhouse gases and global warming • Evidence for and consequences of climate change • Carbon footprint • Atmospheric pollution		
Future Learning (Topic) Y9 C10 Using Resources, A level Chemistry 4.2.4 Analytical techniques, A level Environmental Science (Y12) 3.2 The Physical Environment		
How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)	
<u>Demonstrations</u> Oxygen in the air analysis Formation of acid rain <u>Practical work</u> Investigating the effect of photosynthesis on gases in the atmosphere. Modelling the greenhouse effect <u>Written</u> Analysing data on climate change Calculating your carbon footprint Researching atmospheric pollutants	- 1 x standard homework (Written feedback. Response expected.) -1 x end of topic test combined with C10 topic (Level given. Verbal feedback to class and individuals.)	
How can parents help at home?		
Look at the topic specific resources on the VLE Use appropriate youtube channels: cognito, primrosekitten, khan academy, freesciencelessons. Take an interest! Ask your children what they have learnt and be curious about their learning.		
Helpful further reading/discussion		
Reading Kids Fight Climate Change: Act now to be a	Vocabulary Lists Atmosphere Photosynthesis Greenhouse gas	Careers Links Environmental scientist Chemical engineer

#2minutesuperhero (Paperback) Martin Dorey (author), Tim Wesson (illustrator) Climate Change - DK Eyewitness (Hardback) DK (author), John Woodward (author)	Global warming Climate change Carbon footprint Acid rain Particulate Global dimming	
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