Scheme of Learning: Chemistry of the Atmosphere

Topic Sequence:

1	2	3	4	5	6	7	8	9	10
Cell Biology	Particle Model of Matter	Infection & Response	Atomic Structure & the Periodic Table	Atomic Structure (Physics)	Bonding & Structure	Energy	Bioenergetics	Rates of Reaction	Chemistry of the Atmosphere

Topic Overview:

The Earth's atmosphere is dynamic and forever changing. The causes of these changes are sometimes man-made and sometimes part of many natural cycles. Scientists use very complex software to predict weather and climate change as there are many variables that can influence this. The problems caused by increased levels of air pollutants require scientists and engineers to develop solutions that help to reduce the impact of human activity.

Lesson Sequence:

In this short topic, we start by exploring the historical changes that have occurred in Earth's atmosphere – from the planet's origin up to the present era. We then look at the effect human activity has had on the atmosphere in terms of climate change and pollution.

Sequence of Lessons:	
1	History of our Atmosphere
2	Our Evolving Atmosphere
3	Greenhouse Gases – *mid topic assessment*
4	Global Climate Change
5	Atmospheric Pollutants
6	Revision
7	Test

Resources:	
1	Card sort
2	Reading comprehension
3	n/a
4	Climate change fact sheets x 9, Answer table.
5	n/a
6	n/a
7	Test in shared folder

Supportive Reading:	
Literacy tasks	Comprehension activity in L2 and longer written answer will be assessed in L3

Assessment:	
Knowledge:	Multiple choice and short answer questions.
Application of Knowledge:	Exam questions based on the skill of 'explain'.