

## CurriculumVisions Lesson

Students: fill in next to the word answer and return the document for assessment.

### Science

Book: Gases around us (5C)

Pages 16-23

Everything here is based on our Curriculum Visions book: Gases around us (5C).

In this segment, we are going to learn more about the different gases in the air.

You will need to go to pages 16 and 17 of the book. What are some of the different gases that make up the air? Which gas is most common? Which gas is more important to human and animal life?

Answers may include.....

Nitrogen, oxygen, helium, neon, carbon dioxide, water vapour, pollution.

Nitrogen is more common

Oxygen is most important to human and animal life

Design an experiment to measure the weight of air. If your teacher agrees, try it out.

Students own answers.....

Students can use the design in picture 4 on page 17.

Go to pages 18 and 19 of the book. What is the oxygen cycle?

Answers.....

The oxygen cycle is a never-ending cycle where plants take in carbon dioxide and produce oxygen gas. Humans take in oxygen gas and give out (exhale) carbon dioxide.

What happens if the oxygen cycle gets out of balance?

Answers.....

If there is too much carbon dioxide in the air, the Earth will heat up. This affects the climate around the world (global warming).

Go to pages 20 and 21 of the book. What are some of the main gases that cause air pollution? Where do these come from?

Answers.....

Sulphur dioxide, nitrogen dioxide, ozone  
They come from burning fossil fuels (coal, oil and natural gas)

What are some of the effects of air pollution?

Answers.....

Acid rain (harm to plants), haze/smog (harm to humans - it causes lung diseases and difficulty breathing), ozone - at street level it causes eyes to sting and throats to hurt

Go to pages 22 and 23 of the book. Describe how a candle makes heat and light.

Answer.....

The heat from the wick turns the candle wax to gas. This hot gas mixes with the oxygen in the air to burn, giving off light and heat.

If you are interested in this topic continue to browse the book and watch our amazing videos. They start right on the book cover.