

# Home Learning Menu

## Our Material World - Gasses

### Literacy

#### Testing for Gasses

Draw diagrams to illustrate the equipment you would need to collect and test for oxygen, hydrogen and carbon dioxide in the lab.

Write a couple of sentences to describe what would happen during these tests if oxygen, hydrogen or carbon dioxide was present.

If you are feeling ambitious you could write a full lab report including the aim of the investigation, your diagrams, the expected results, a conclusion and an evaluation of the experiment.

**Remember** to draw diagrams with pencil and a ruler!

### Numeracy

#### Gasses in the Atmosphere

The following table contains the gasses that the Earth's atmosphere is composed of. Use it to help you answer the questions.

Type of Gas	Composition of Gasses (%)
Nitrogen	78
Oxygen	21
Carbon dioxide	0.04
Argon	0.9
Neon	0.009
Helium	0.05
Methane	0.001

1. Which gas in the earth's atmosphere is the most abundant?
2. Which gas in the earth's atmosphere is the least abundant?
3. What is the simplest whole number ratio of oxygen to nitrogen in the earth's atmosphere?
4. Other than oxygen and nitrogen, what is the % of the other gases that make up the atmosphere?
5. Use the table to draw a pie chart of the gasses in the earth's atmosphere. You can group the gasses that are not a whole number under other gasses.

### IDL - Physics

#### Gasses in Space

Create a leaflet which informs the reader about gasses in the solar system. You need to conduct some research before designing the leaflet.

You should include a description and diagrams of the birth of our star, the sun. Choose one of the gas giants and include a description of the gasses that make up that planet.

If you are feeling ambitious you could research additional planets for your leaflet.

### Health & Wellbeing

#### Harmful Gasses

Create a PowerPoint which discusses the health risks of smoking. You need to conduct some research before designing the PowerPoint.

Be sure to include the gasses smokers inhale and the damage they are doing to their bodies.