

TA11A - Learn About The Atmosphere

Use with BrishLab ES11A

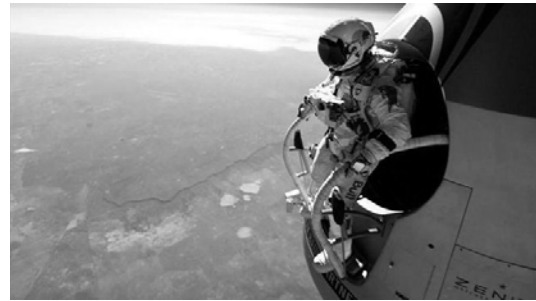
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1- What two words combine to form the word
Atmosphere?

Page 1

Para 1



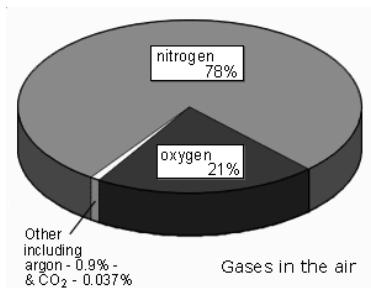
The word atmosphere comes from *atmos*,
meaning vapor and *sphaira*, meaning sphere.

[Image Link](#)

2- Why would a balance of gasses be needed
for us to stay alive on Earth?

Page 1

Para 2



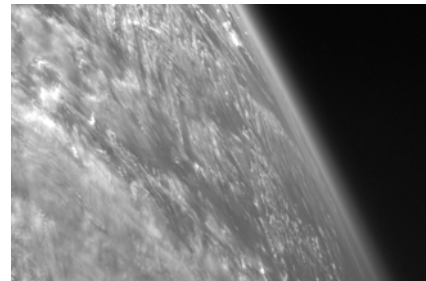
Because we need oxygen to live, and other
gasses to keep out temperature stable.

[Image Link](#)

3- Compared to a basketball, how thick would
our atmosphere be?

Page 1

Para 3



Our atmosphere would only be as thick as a piece of
paper if the Earth were the size of a basketball.

[Image Link](#)

4- How would the Earth and the moon be
similar without an atmosphere?

Page 1

Para 4



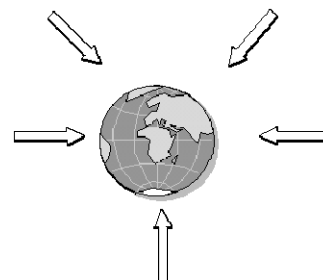
Without an atmosphere, we would have no water no life.

[Image Link](#)

5- If air is packed tighter together at Earth's
surface, what force could hold it there?

Page 1

Para 5



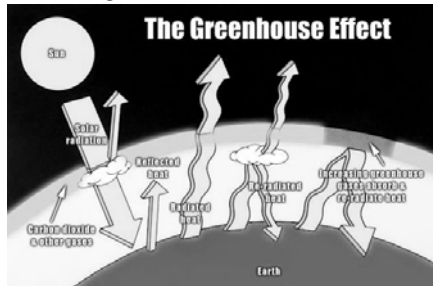
Gravity holds our atmosphere on Earth

[Image Link](#)

6- How does the atmosphere keep the temperatures even so that our water is not frozen or boiling?

Page 1

Para 6



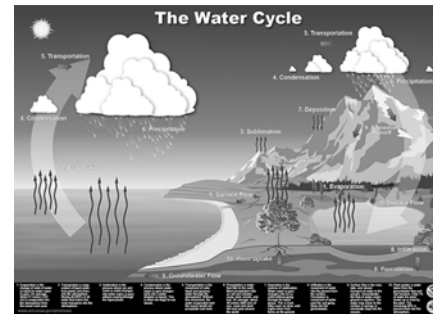
Our atmosphere traps energy much like a greenhouse.

[Image Link](#)

7- Water is locked in a water cycle. Is any more water being made?

Page 2

Para 9



All Earth's water is recycled and used again. No new water is being made - just reused.

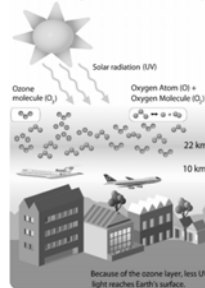
[Image Link](#)

8- How does the Ozone layer help keep us alive?

Page 2

Para 10

Ozone Layer in the Atmosphere



The Ozone layer helps us by absorbing the Sun's UV rays.

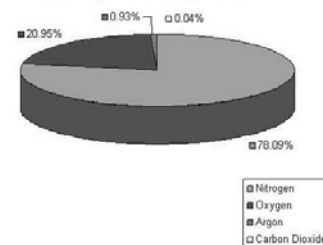
[Image Link](#)

9- There's a lot of talk about Carbon Dioxide in our air. What percent of our air is Carbon Dioxide?

Page 2

Para 11

Atmospheric Composition



Carbon Dioxide makes up 0.0387% of our air - a very small part.

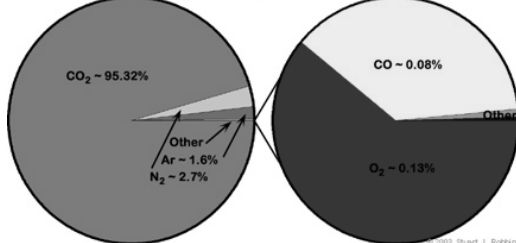
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10- All atmospheres are made of gasses. How are other planet's atmospheres different?

Page 2

Para 12

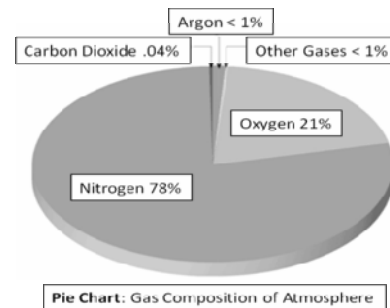
Elemental Composition of Mars



The types and amounts of gasses are all different.

[Image Link](#)

Draw and label a circle graph (pie chart) of the top three gasses that make up our atmosphere.



Pie Chart: Gas Composition of Atmosphere

[Image Link](#)