

TA11C - Learn About Air Pressure

Use with BrishLab ES11C

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1- What are two properties of air?



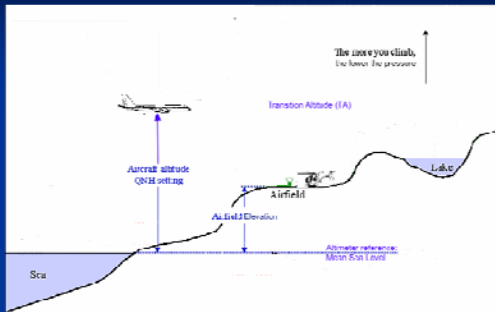
Air has mass and takes up space.

Page 1

Para 1

[Image Link](#)

2- How can you tell how high you are in the air by knowing the air pressure readings?



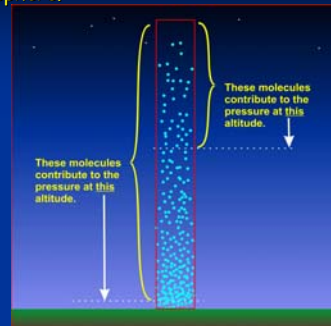
The lower the air pressure,
the higher you are in a plane.

Page 1

Para 4

[Image Link](#)

3- Describe the molecules in a column of air in our atmosphere.



Most of air molecules are near Earth's surface.

Page 1

Para 6

[Image Link](#)

4- What kind of air pressure is typical of good weather?



High pressure air brings good weather.

Page 1

Para 5

[Image Link](#)

5- What does PSI mean?



PSI stands for air pressure in Pounds per Square Inch.

Page 1

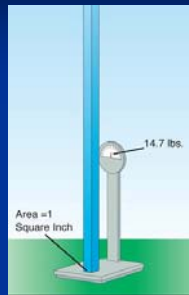
Para 6

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6- What is the air pressure at sea level and in space in PSI?

Page 2

Para 7



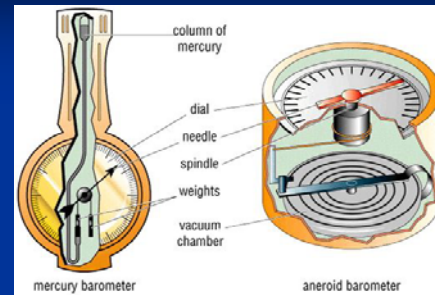
Air pressure is about 14.76 PSI at sea level and 0 PSI in space.

[Image Link](#)

7- What is the difference between an aneroid and a mercury barometer?

Page 2

Para 8



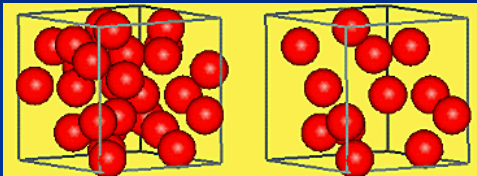
Both measure air pressure, but an aneroid barometer has no dangerous mercury metal.

[Image Link](#)

8- How is the density of anything calculated?

Page 2

Para 10



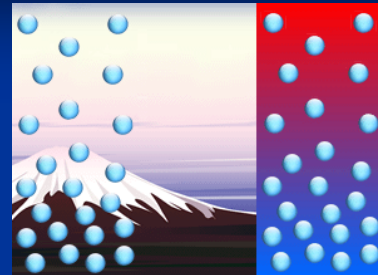
Density is the amount of material divided by the room it takes up - mass / volume.

[Image Link](#)

9- How can temperature and altitude change the density of air?

Page 2

Para 11



Both higher temperature and higher altitude gives lower density air.

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10- Clouds are not water vapor. Why?

Page ____

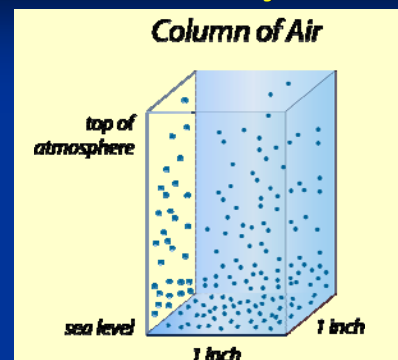
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We can see clouds - tiny water droplets. Water vapor is invisible.

[Image Link](#)

Wrap it up: Draw, color and label a diagram of a column of air 100 miles high.



[Image Link](#)