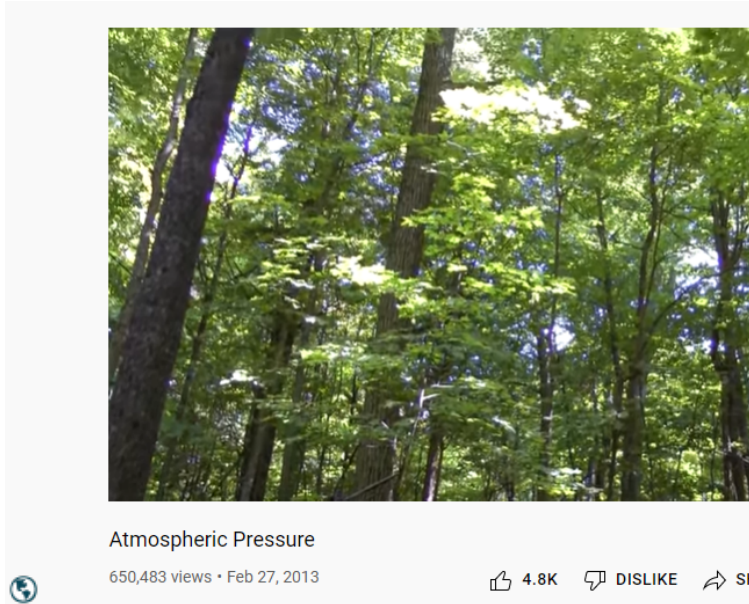


## Atmospheric pressure



We will  
look at this  
again in the  
weather  
unit

5 min

The atmosphere that surrounds Earth has weight and pushes down on anything below it. The weight of air above a given area on Earth's surface is called atmospheric pressure. It is an important factor influencing Earth's weather and climate.

Atmospheric pressure changes at different altitudes. Pressure is greatest at sea level and decreases with height.

Air is heaviest at sea level because the air molecules are compressed by the weight of the air above them.

Air becomes lighter farther away from Earth's surface as the air molecules become separated by more space

[Where does space begin? How high is the atmosphere? \(youtube.com\)](https://www.youtube.com/watch?v=...)



## Water in the Air

### Recall

97.5 % of water on earth is salt water and 2.5% is fresh water. Only 0.3% of the fresh is of liquid form.

Nearly all of the water is located in the lowest layer of the atmosphere, the troposphere.

Water is present in variable amounts in the atmosphere, from 0 % to 4 %.

Unlike oxygen and nitrogen, the concentration of oxygen depends on local weather conditions and changes greatly from place to place on Earth.

Clouds form preferentially over dark vegetation and just downwind of mountain ranges.

The water in the atmosphere makes up only a very small percentage of the total water on Earth.

In the atmosphere, water exists as a gas (water vapor from evaporation), as a liquid (droplets of rain and liquid water that coats solid particles), and as a solid (snow and ice). Its structure depends on its state.

## Attachments

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NOTES - Ecological Organization.pdf

TEXT - Water and Nitrogen Cycles.pdf

Science 7 Rock Assignment 1.docx