

Water From the Air

Indonesia Team



Problem

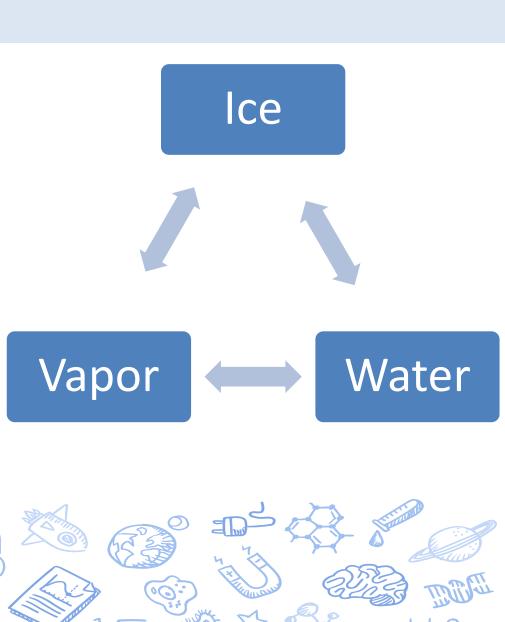
- Design and construct a device allowing collection of water by condensing moisture from air.
- Determine if the water obtained with your device is suitable for drinking.
- What amount of water is possible to collect during one Science Fight?



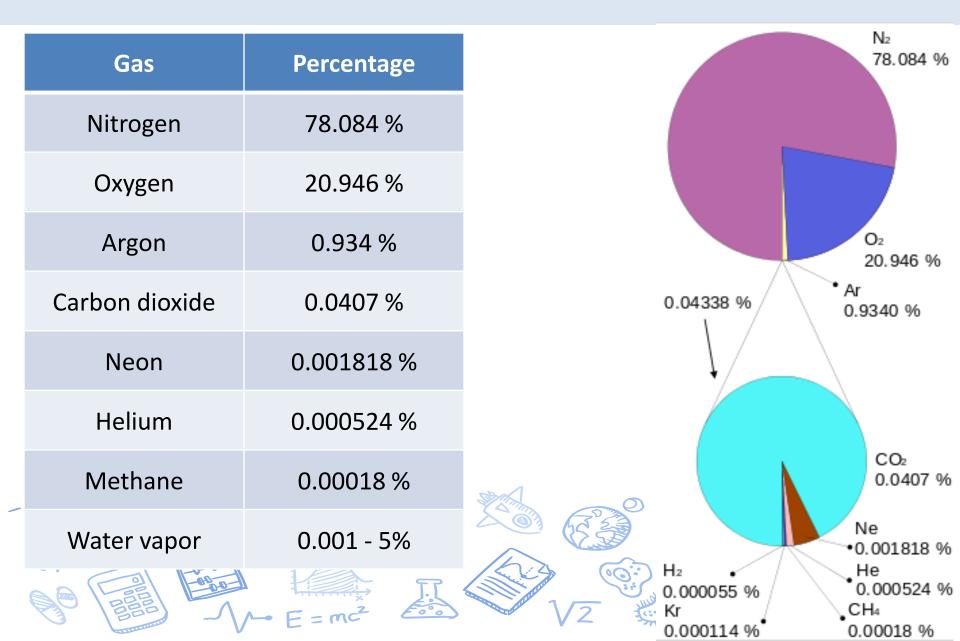
What is Water?

A transparent, colorless, odorless and tasteless chemical substance

Chemical Formula : H₂O



Composition of air



Condensation

Change of the physical state of matter from gas phase into liquid phase



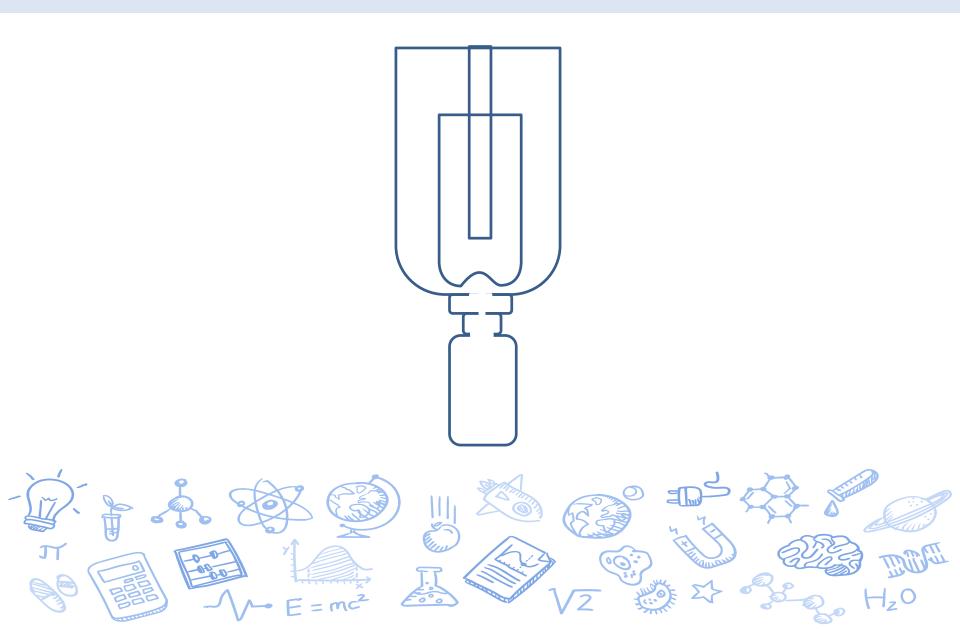
Experiment

- Tools
 - 1 gallon plastic bottle
 - 1500 ml Plastic bottle
 - 330 ml Plastic Bottle
- Material
 - Carton
 - Ice cubes
 - Piper betle

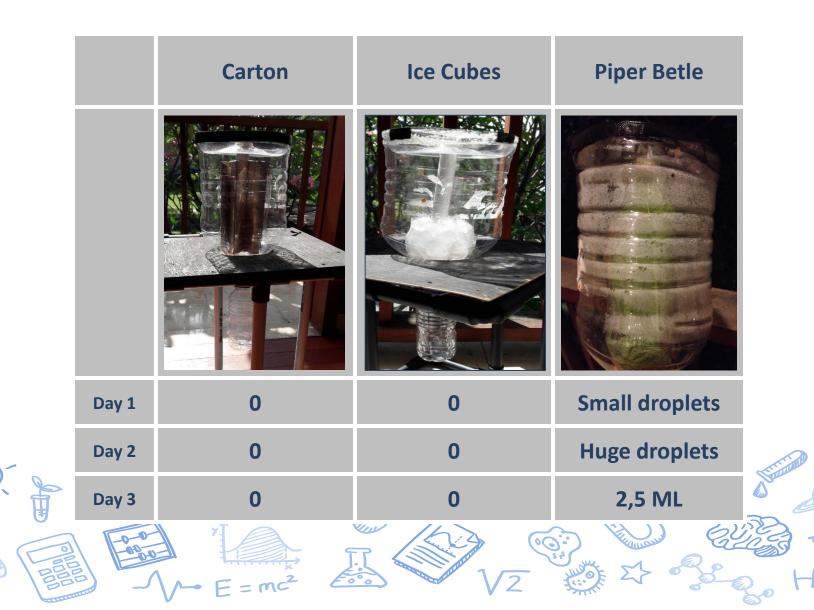




Design

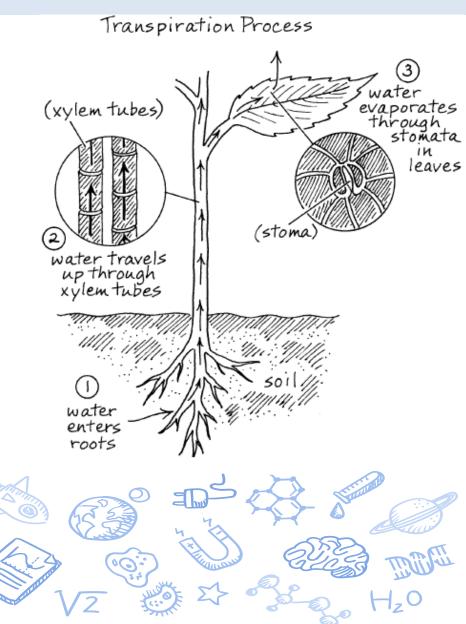


Results



Transpiration

 process of water movement through a plant and its evaporation from aerial parts, such as leaves, stems and flowers.



Conclusion

- The water is safe to drink
- Amount of water collected : 0,125 ML / SF (3 hrs)



Sources

2017. Web.

- Http://www.practicalsurvivor.com, Robert Munilla.
 "PracticalSurvivor.com." *Link to PracticalSurvivor.com*. N.p., n.d. Web.
- Yeosujjang. "How to Make a Plastic Bottle Solar Distiller." *YouTube*. YouTube, 10 July 2013.
- "Water." *Wikipedia*. Wikimedia Foundation, 18 June 2017. Web.
- Survive! How to survive anything, anywhere, By: Guy Campbell
- Condensation." Wikipedia. Wikimedia Foundation, 13 June

