## 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 : $\mathrm{H}_{\mathbf{2}} \mathrm{O}$


## 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


JT




## Design



## Results



## Transpiration

Transpiration Process

- 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

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