



WHAT IS AIR?

WHERE CAN WE FIND IT? _____

CAN YOU SEE IT? _____

CAN YOU FEEL IT? _____

DOES AIR OCCUPY SPACE??? _____

DOES IT HAVE WEIGHT? _____

DOES IT HAVE DEFINITE VOLUME? _____

WHAT IS THE AIR MADE OF? _____

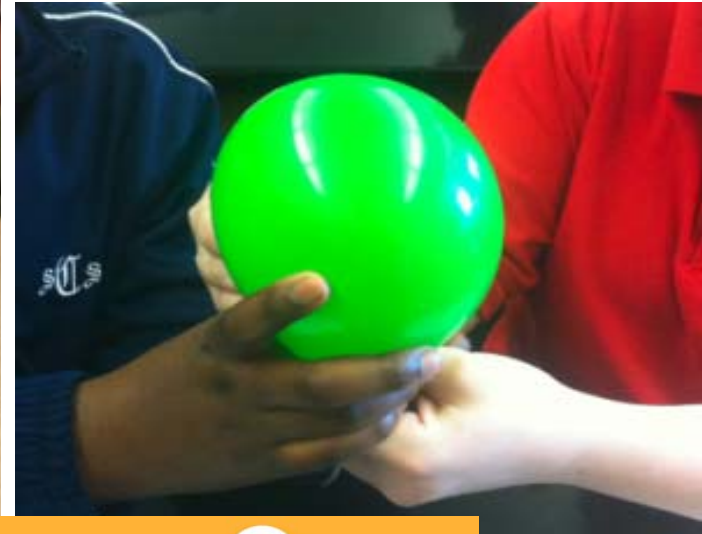
WHAT IS EVAPORATION? _____

WHAT IS CONDESATION? _____

**3rd YEAR PRIMARY EDUCATION
YEAR 2013/2014**



DOES AIR OCCUPY SPACE?



STUDENT: _____

3rd YEAR PRIMARY EDUCATION

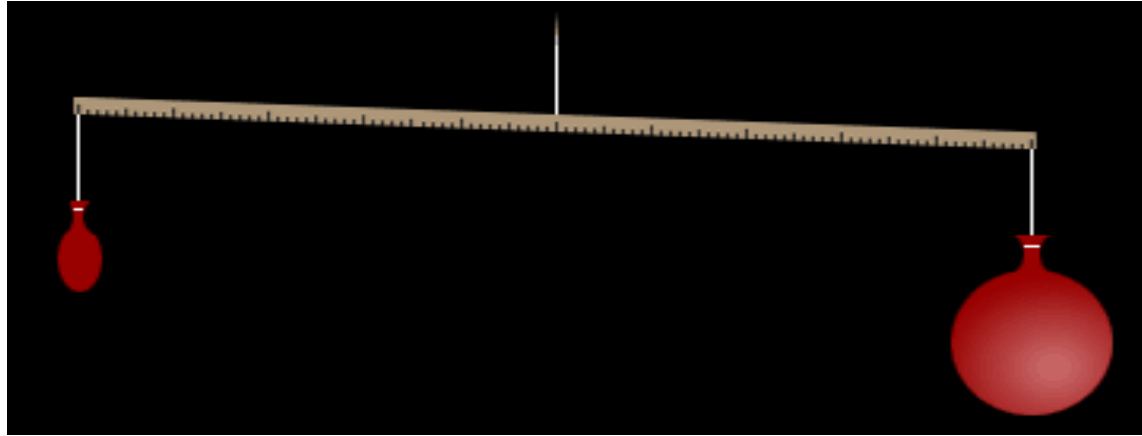
Fichas Gases Primaria.

CBM "NTRA. SRA. DE LOS ÁNGELES" EL ESPARRAGAL (MURCIA)

Autoras: Ascensión López Espín / Ana Cristina Rubín Torrado / Nuria Castellanos Serna / Mariola Sanz Rodríguez .

Publicado en septiembre de 2014 en CIENCIA EN EL AULA- EL CSIC EN LA ESCUELA [<http://www.csicenlaescuela.csic.es/>]

DOES THE AIR HAVE WEIGHT?



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3rd Year Primary Education

Fichas Gases Primaria.

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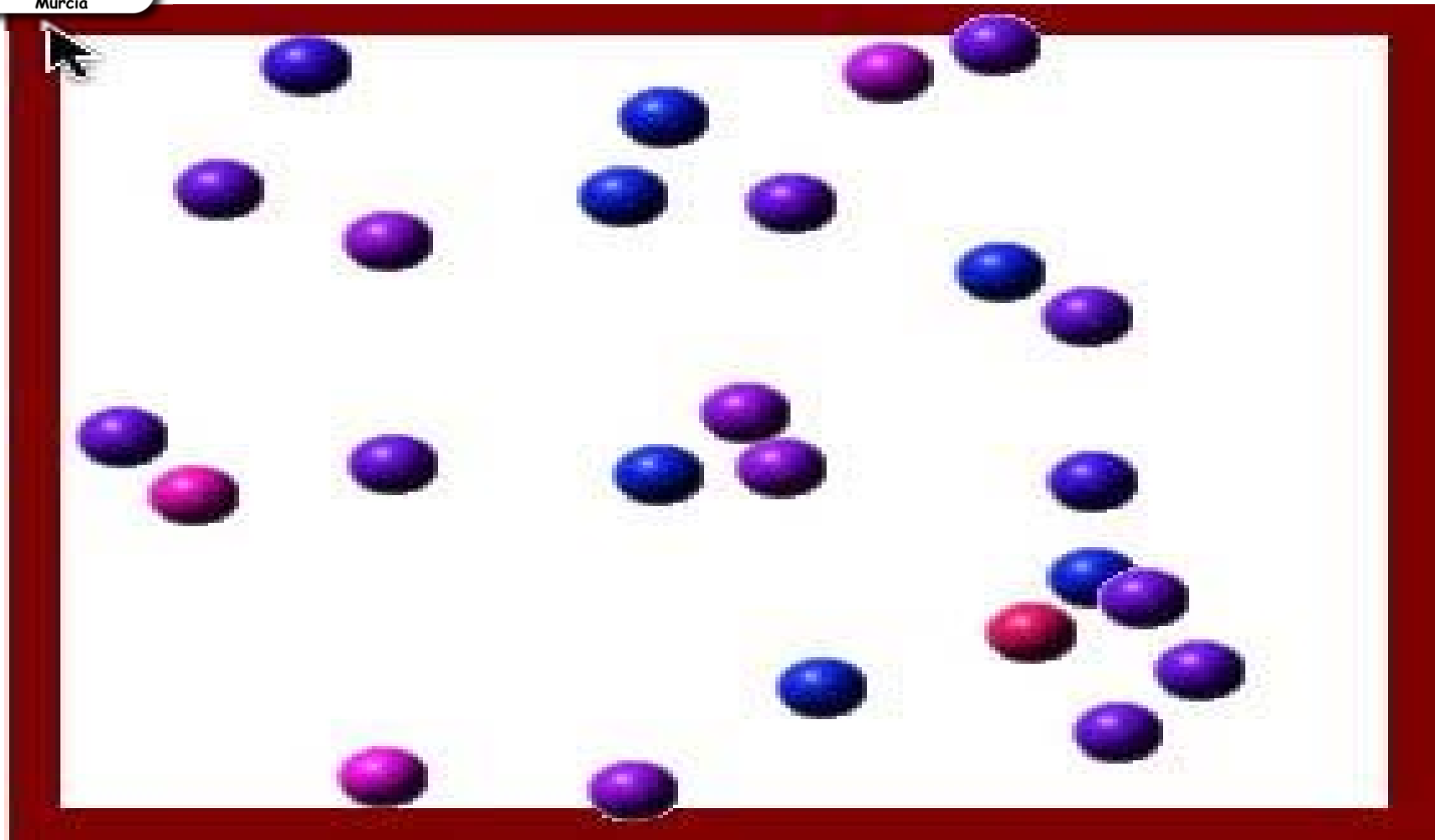
Conclusions

You need for the experiments: plastic cups, water, napkins, ping pong balls, a ruler, string and balloons.

- The experiments have shown us that air occupies space and it weighs.
- Air is made up of things we can not see. So They have to be very small, tiny indeep. They are called molecules.



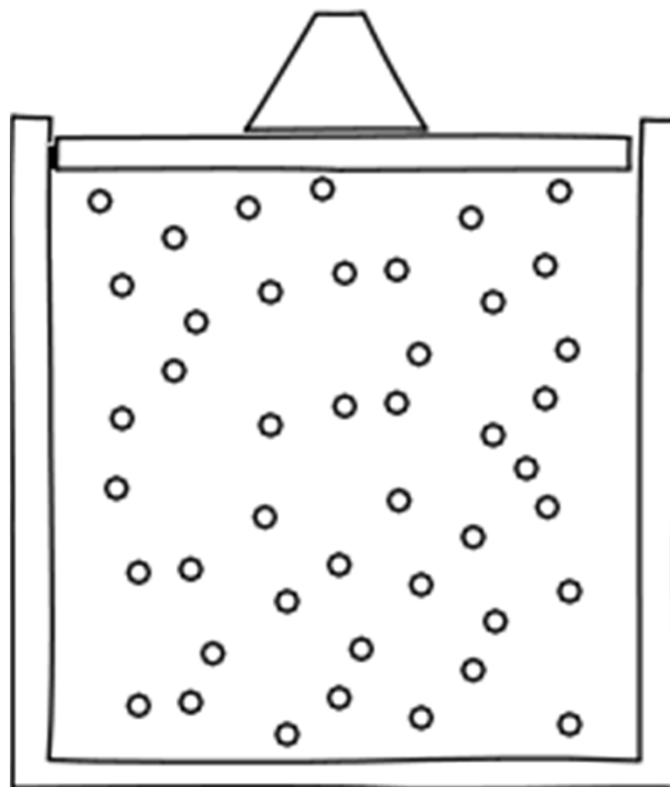
WHAT IS THE AIR MADE UP OF?





GASES IN MOVEMENT

- molecules are like ping pong balls.



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GASES PROPERTIES

THEY DO NOT HAVE DEFINITE VOLUME.
IF THERE IS NOT A CONTAINER, GASES
WILL TAKE ALL THE SPACE.

THEY DO NOT HAVE DEFINITE VOLUME OR
SHAPE. THEY WILL TAKE THE SHAPE OF THE
CONTAINER



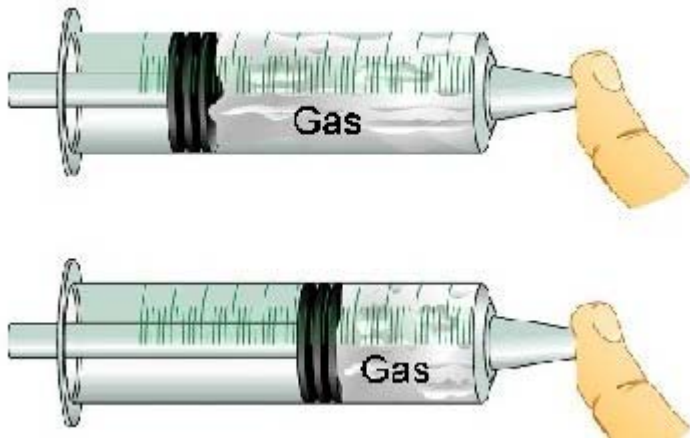
STUDENT: _____

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GASES PROPIERTIES

**CAN BE COMPRESSED
AND EXPANDED**



GASES HAVE WEIGHT



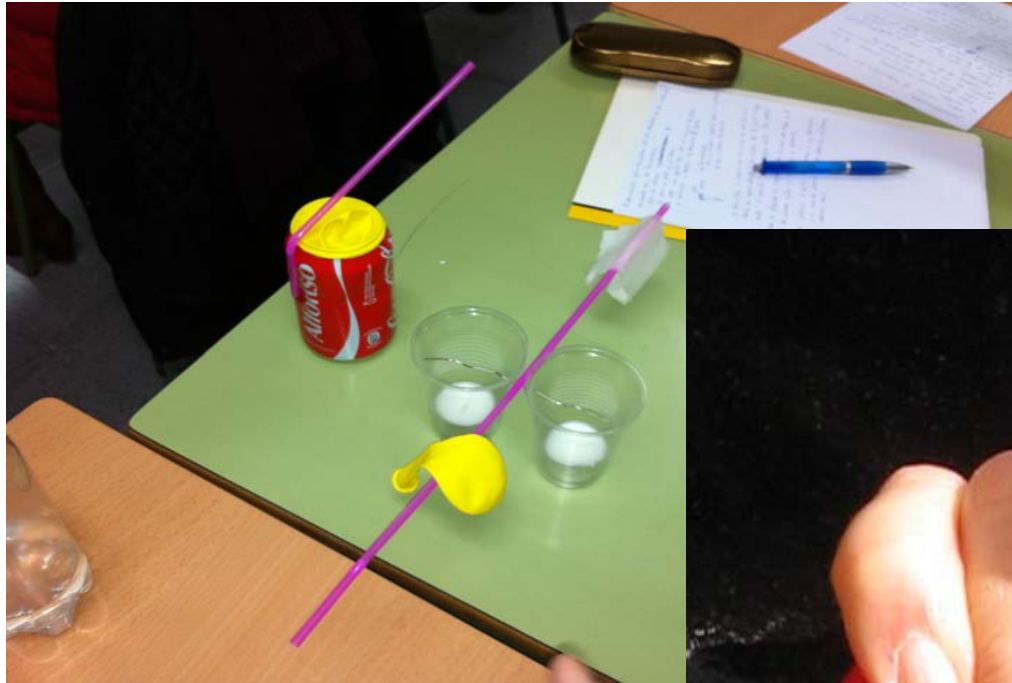
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Conclusions

- You need for the experiments: syringes, empty coke cans, balloons, straws, bottle of water.
- Gases don't have definite shape and definite volume.
- Temperature and pressure have influence in gases

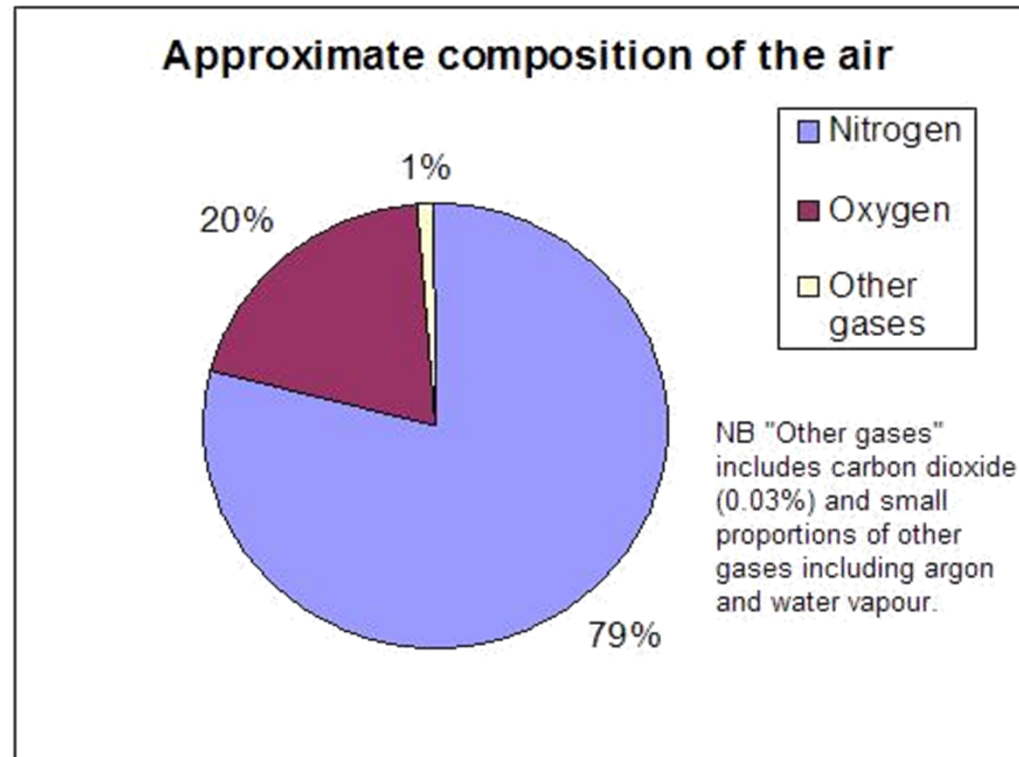
More experiments





WHAT IS THE AIR MADE UP?

GASES



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OXYGEN / CARBON DIOXIDE

HOW CAN WE PROVE THAT THESE GASES
ARE IN THE AIR?



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Conclusions

- Air is made of different gases, mainly nitrogen and oxygen. Other gases are water vapour or carbon-dioxide.
- Some of them are heavier than others.



HOW CAN WATER TRAVEL THROUGH THE AIR?

EVAPORATION



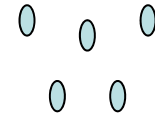
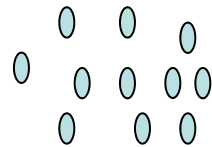
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OTHER EXPERIMENT.....

EVAPORATION



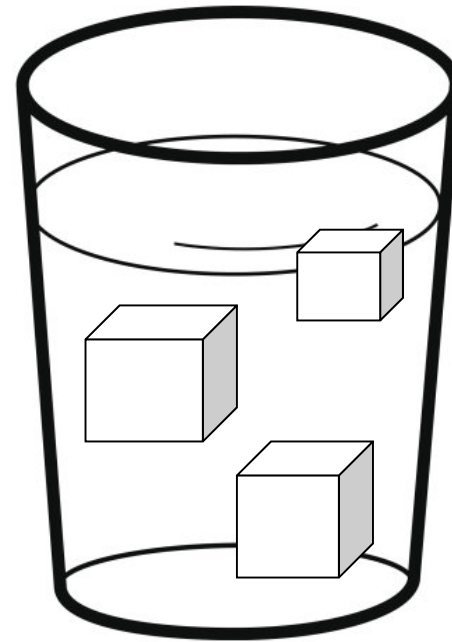
WHY IT HAS EVAPORATED
QUICKIER THAN THE OTHER?

TEMPERATURE



HOW CAN WATER TRAVEL THROUGH THE AIR?

CONDENSATION



STUDENT: _____

3RD YEAR PRIMARY EDUCATION

Conclusions

- Water vapour travels through the air by means of evaporation and condensation.
- Evaporation is when water changes its state from liquid to gas.
- Condensation is when water vapor changes its state from gas to liquid.
- Temperature influences in these changes of state.

RECAP

- Air is everywhere
- You can't see it but you can feel it.
- Air occupies space.
- Air weighs.
- Air has not definite volume and shape.
- Air is made of gases. Gases are made of molecules.
- Air is made up of oxygen, nitrogen, carbon dioxide, water vapour and other gases.
- Evaporation occurs when a liquid changes its state to form a gas or vapor.
- Condensation occurs when a vapor or gas changes its state to form a liquid.