STATES OF MATTER - gases

Activity 7

Let's dilate a gas.

A) You need:

> Three identical balloons



A permanent marker



Scales

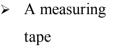




Wire



A fridge









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B) Instructions and diagram.

- 1. Write on a balloon "cold air", on another "room temperature air" and on the third "hot air".
- Take the three balloons and inflate them with the same amount of air. You can use the scales to check it.
- 3. Take a balloon and make a ring out of the wire. The balloon has to just go through the wire ring. Check that the other two balloons can just go through the ring too.
- 4. Leave the "cold air" balloon in the fridge, the "room temperature air" balloon in the classroom and the "hot air" balloon in a hot place (in the sun on a hot sunny day or near a candle flame or near a radiator if it's not a hot sunny day).
- 5. After a quarter of an hour use the wire ring to check them again.

Diagram	
The perimeter of the wire ring is	

Name;	Date:	
C) What happened?		_
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D) Why?		



Activity 7

- C.- The *cold/hot* air balloon *can/cannot* go through the wire ring.
- **D.-** Because the *cold/hot* air balloon *expanded/contracted* when *I/we increased/decreased* the temperature.