Name: Date:

STATES OF MATTER - gases

Activity 7

Let's dilate a gas.

A) You need:

- Three identical balloons 
- A permanent marker 
- Scales 
- Wire 
- A fridge 
- A measuring tape 

B) Instructions and diagram.

1. Write on a balloon "cold air", on another "room temperature air" and on the third "hot air".
2. 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? _____

_____

_____

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.