



## DIY Thermometer

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### Materials:

- Bottle
- Food coloring
- Rubbing alcohol
- Straw (longer than the bottle is tall)
- Clay
- Cold water
- Blank paper or graph paper
- Colored pencils

### Assembly Instructions:

1. Pour one cup of cold water into the bottle.
2. Add one cup of rubbing alcohol.
3. Add a few drops of food coloring to the mixture.
4. Insert the straw.
5. Pack clay tightly around the straw and bottle opening to complete the thermometer!

Observe the thermometer in different areas - outdoors, indoors, inside a refrigerator, etc.

**How does the thermometer respond to changes in temperature? Why?**

**Why are instruments that measures temperature important for meteorologists?**