

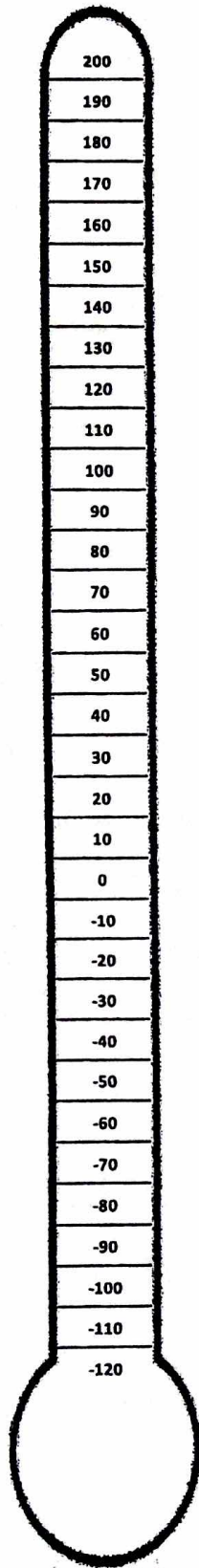
Degrees Celsius

Water

Ethanol

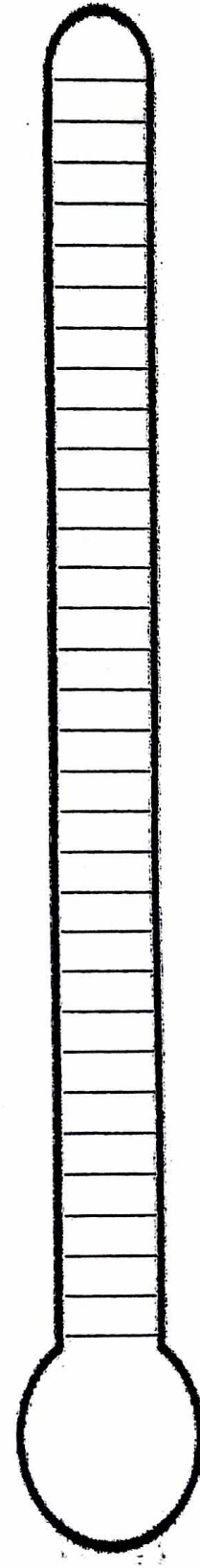
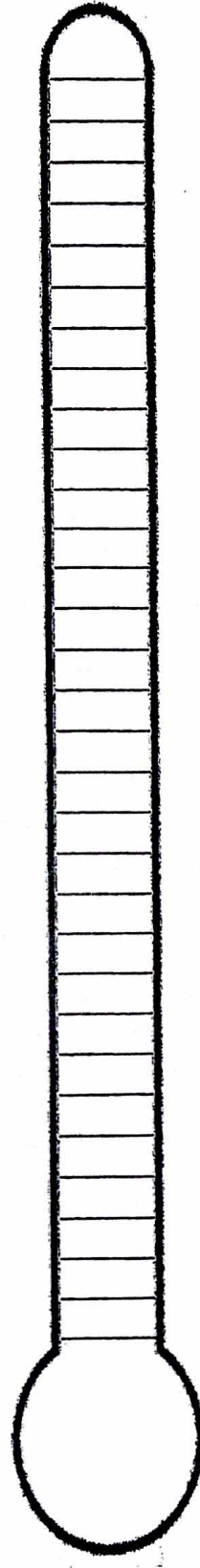
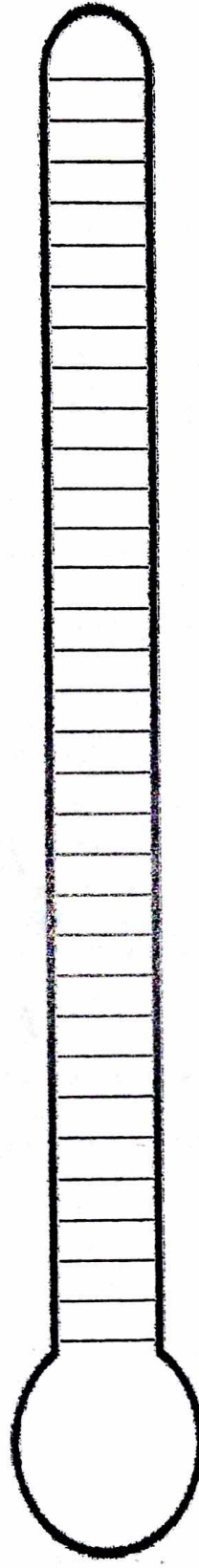
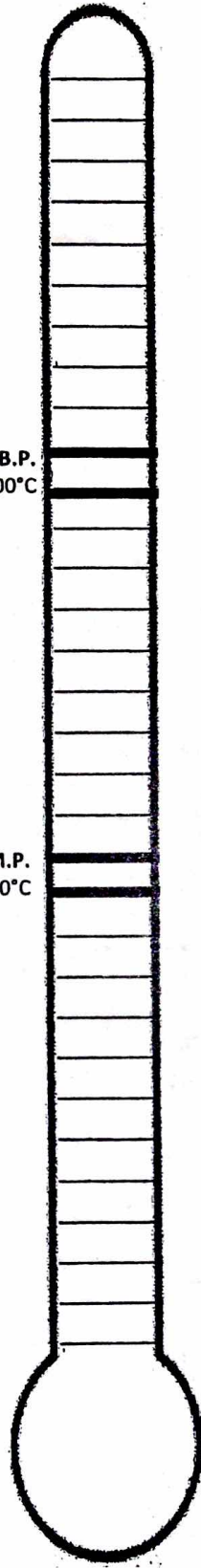
Bromine

Radon



B.P.
100°C

M.P.
0°C



Analysis Questions:

Write TRUE or FALSE on the line. Then, correct the false statements.

- _____ water is a *liquid* at 35°C
- _____ bromine is a *gas* at -60°C
- _____ radon is a *solid* at -110°C
- _____ ethanol is a *gas* at 140°C
- _____ water is a *solid* at -5°C
- _____ ethanol is a *liquid* at -80°C
- _____ radon is a *liquid* at 0°C
- _____ bromine is a *solid* at 0°C
- _____ radon melts at a *lower* temperature than water (ice)
- _____ bromine melts at a *lower* temperature than ethanol

Answer each question using your colored thermometers.

- Which substance has the **lowest** boiling point? _____
- Which substance has the **highest** boiling point? _____
- Which substance has the **highest** melting point? _____
- Which substance has the **lowest** melting point? _____
- Name the substances that are liquids at -30°C. _____
- Name the substances that are gases at 70°C. _____
- Name the substances that are solids at 10°C. _____
- What is the lowest temperature at which all four substances will be gasses? _____
- What is the highest temperature at which all four substances will be solids? _____
- Name a temperature at which water is a solid and radon is a gas. _____