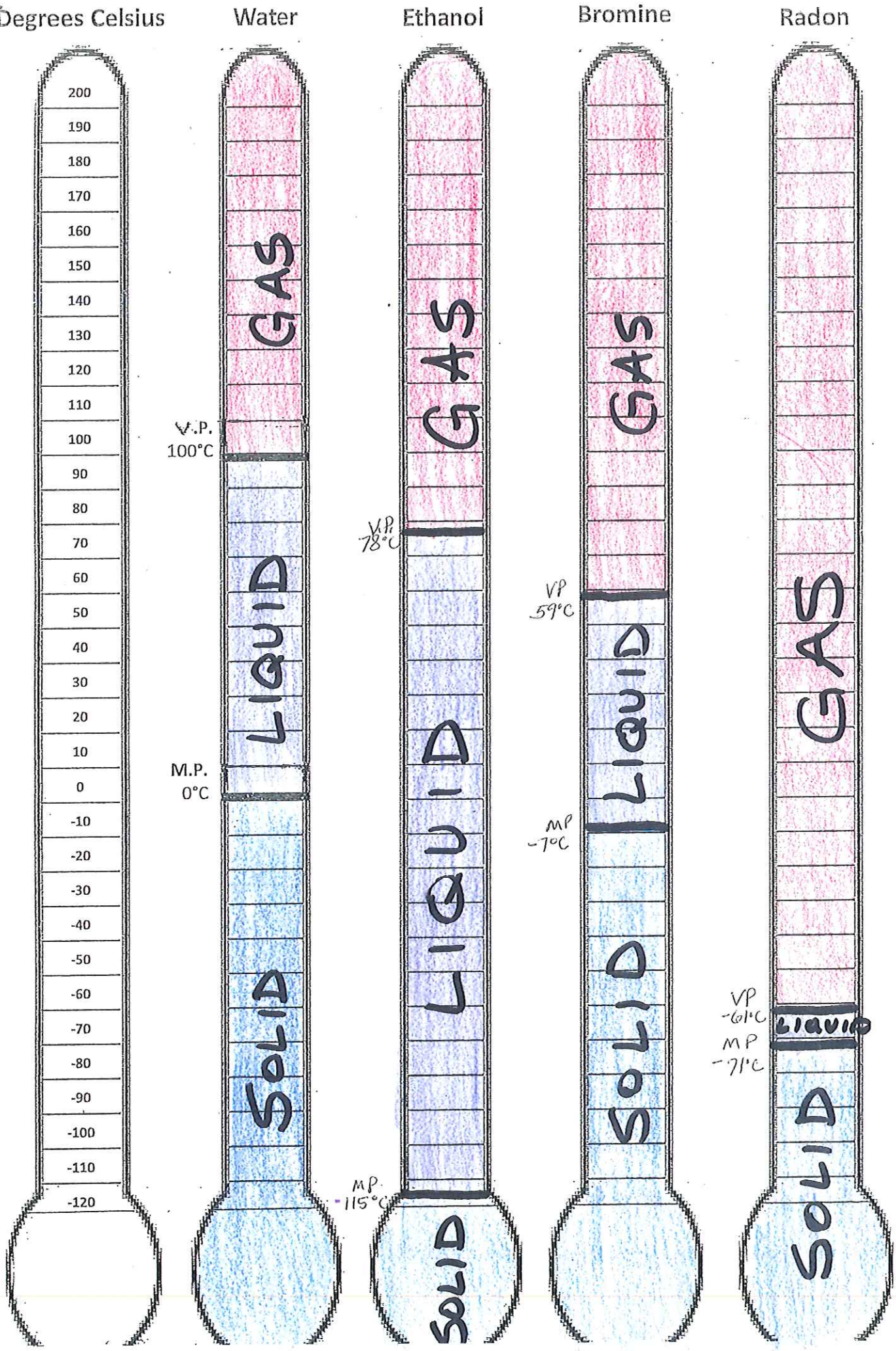
Degrees Celsius
Water
Ethanol
Bromine
Radon
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
V.P.
100°C
M.P.
0°C
GAS
LIQUID
SOLID
VP
78°C
MP
-115°C
GAS
LIQUID
SOLID
VP
59°C
MP
-7°C
GAS
LIQUID
SOLID
VP
-61°C
MP
-71°C

Analysis Questions: (After you've colored the thermometers.)

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

1. True water is a *liquid* at 35°C
2. False bromine is a *gas* at -60°C Solid
3. True radon is a *solid* at -110°C
4. True ethanol is a *gas* at 140°C
5. True water is a *solid* at -5°C
6. True ethanol is a *liquid* at -80°C
7. False radon is a *liquid* at 0°C Gas
8. False bromine is a *solid* at 0°C Liquid
9. True radon melts at a *lower* temperature than water (ice)
10. False bromine melts at a *lower* temperature than ethanol higher

Answer each question using your colored thermometers.

1. Which substance has the **lowest** vaporization point? Radon
2. Which substance has the **highest** vaporization point? Water
3. Which substance has the **highest** melting point? Water
4. Which substance has the **lowest** melting point? Ethanol
5. Name the substances that are liquids at **-30°C.** Ethanol
6. Name the substances that are gases at **70°C.** Bromine, Radon
7. Name the substances that are solids at **10°C.** None
8. What is the lowest temperature at which all four substances will be gasses? 100°C
9. What is the highest temperature at which all four substances will be solids? -115°C
10. Name a temperature at which water is a solid and radon is a gas. -61°C → 0°C