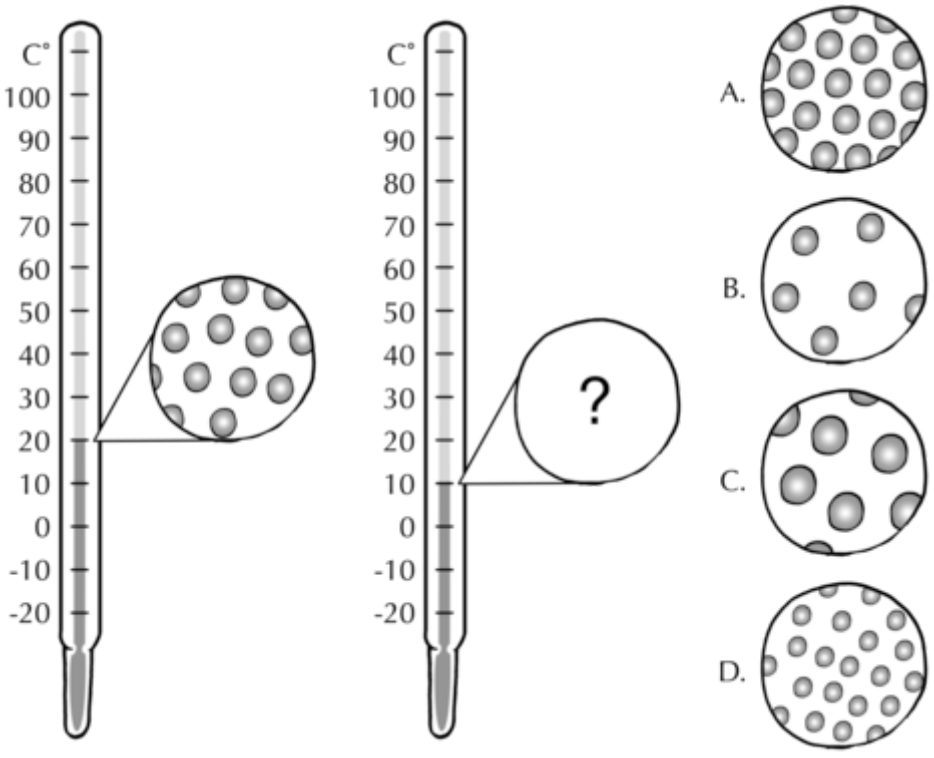
WorksheetCloud: WORKSHEET
Grade 8
Subject: Natural Sciences
Topic: Expansion and contraction of liquids

Activity 1

Study the diagram below and answer the following questions. Look carefully at the following set of diagrams.
They represent the same thermometer at two different temperatures.
The drawings (A, B, C and D) represent the particles in the liquid inside a thermometer.



1. What is the temperature measured on the thermometer on the left?
2. The drawing on the right is of the same thermometer, but slightly different. Can you tell the difference?
3. Which of the circles (A, B, C, or D) is the best representation of the liquid in the thermometer on the right? Why did you choose this one?
4. Does a material have less mass when it has contracted? Explain.
5. If the temperature was raised and the thermometer read 30°C, which circle would now best represent the particles in the liquid of the thermometer? Why
6. How does the volume change when a material is heated? Why?
7. How does the density change when a material is heated? Why?