

EXERCISES To make use of a graph

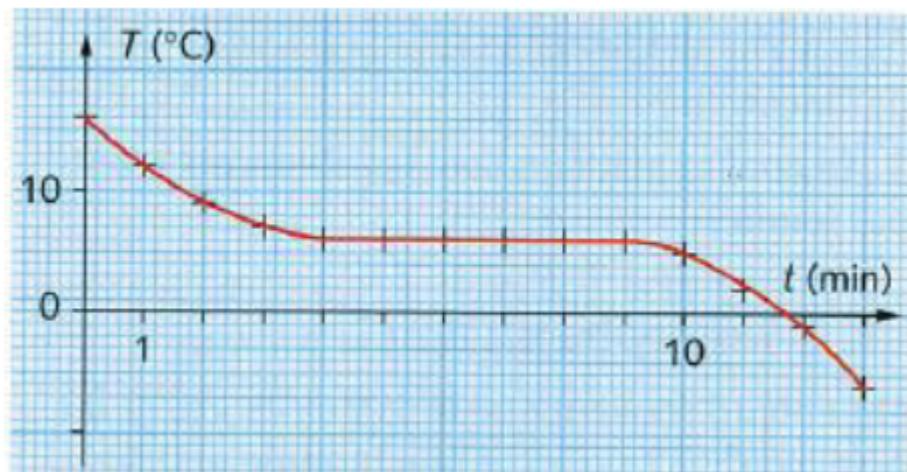
1. Answers that you need to know:

- What are the state of matter?
- How is called the transition from the solid state to the liquid state?
- What is evaporation?
- What are the temperatures of change of state of pure water?
- Are the temperatures of change of state even the same for colorless liquids?

2. To make use of a graph

A student pick up each minute the temperature of an unknown colorless liquid which is cooled down. He obtains the following graph.

- What are the quantities on the axis?
- How long lasts the experience?
- How does the temperature vary between 16°C and 6°C ?
- Color in blue the constant part of the curve.
- Color in black the part of the curve that represents the change of state.
- At what time begins the change of state?
- How long lasts the change of state?
- At which temperature does this change of state take part?
- In which state is the colorless substance at the beginning of the experience?
- In which state is the substance at the end of the experience?
- Is this substance water?



3. To make use of a graph

Find amongst these graphs, which one(s) correspond to the freezing of pure water under normal pressure.

