

Safety:

Instruments:

- two glasses
- a tablespoon
- thermometer

Chemicals:

- two ice cubes
- salt

Experiment:

- Place one ice cube in each glass. Put a heaping tablespoon of salt into one of the glasses.
- Observe both ice cubes carefully!
- Measure the temperature as close to the ice cubes as possible in order to determine how cold the melt water next to the ice cubes is.
- Which ice cube melts more quickly?
- One of the glasses has a temperature below 0°C. Which one?

Advice for the teacher:

The pupils should learn that ice melts more quickly when salt has been strewn on it. The melting process is not due to a warming up of the water. Instead the water experiences a cooling off as the salt absorbs heat.