

Worksheet 4 (answer sheet): How the heat pack stores heat – A salt that changes between solid and liquid states

Solutions are only given for those tasks that have a standardized answer.

Task 3

Formulate a set of instructions for the experiment. Use the words from the language building blocks below to construct 11 sentences which make sense. Use the verbs in the given order. Nouns and prepositions from the language building blocks can be used more than once. Pay attention to a logical sequence of your sentences.

put on use ... to transfer light secure ... and hold insert ... and measure place ... carefully ... and allow ... to cool down can start to write place ... gently and scrape take out ... and insert measure complete	safety goggles handle of the tea-spoon salt tea light test tube sensor temperature instructions glass rod thermometer	to into with in over for against of	height of about 1 cm test tube lighter clamp flame digital thermometer salt plant clip experiment solidifying salt sides
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1. First put on the safety goggles.
2. Then use the handle of the teaspoon to transfer the salt to a height of about 1 cm into the test tube.
3. Then light the tea light with the lighter.
4. Thereafter, secure the test tube in the clamp and hold the test tube over the flame.
5. When the salt begins to melt, insert the sensor of the digital thermometer into the salt and measure the temperature.
6. Then place the test tube carefully into the plant clip and allow the salt to cool down until it no longer feels warm to the touch.
7. In the meantime, you can start to write the instructions for the experiment.
8. Later, place a glass rod into the test tube and gently scrape the glass rod against the sides.
9. When the salt begins to crystallize, take out the glass rod and insert the thermometer.
10. Then measure the temperature of the solidifying salt.
11. Finally, complete the instructions for the experiment.