

Part A3

Systematic study in physics

Your assignment is to plan an investigation that you later will carry out and evaluate.

Fact

Substances have different specific heat capacity. The substance with the highest specific heat capacity requires most energy to heat.

Specific heat capacity:

Specific heat capacity is a measure on the **amount of thermal energy** needed to heat **1 kg** of a substance **1 °C**.

14. Planning phase (Time 30 minutes)

You are going to **plan** an investigation to find out:

Which of the substances water, glycerol **or** cooking oil that demands most energy to heat, that is, decide which substance has the highest specific heat capacity.



Part A3

Planning a systematic investigation in physics

Method of investigation

Write an instruction how you, step by step, will proceed your investigation.
Describe the instruction with details so that someone else can follow your plan.

Equipment

Specify what material you need to realize your investigation.

Leave your plan to your teacher. If needed, you will get a prepared experiment instruction to carry out your investigation.

Use your own plan

Use the prepared experiment instruction

Adjustments from the teacher: