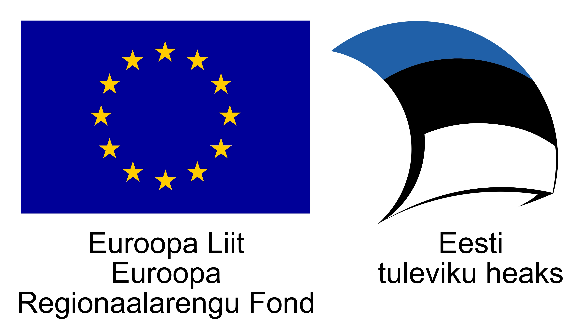
Science workshop has been created by Grete Jaeski, Elina Tall and Koit Krusberg (Form 11.TE, supervisor Agnes Vask, Tartu Tamme Gymnasium 2017/2018).

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**Worksheet for students**

**Task 1.** Symbols used for sketching the electric circuits.

Switch Power source

Power consumer (lightbulb) Voltmeter

Ammeter Resistor

Wiring connection Crossing of wires

**Test 1.** Draw the circuit schematics of serial connection of resistors. Afterwards, construct the circuits and measure the current and voltage and calculate the resistances.

Resistor nr 1 current strenght:

Resistor nr 2 current strenght:

Resistor nr 1 voltage:

Resistor nr 2 voltage:

Resistor nr 1 resistance:

Resistor nr 2 resistance:

**Test 2.** Draw the circuit schematics of parallel connection of resistors. Afterwards, construct the circuits and measure the current strengths and voltages and calculate the resistances.  
  
Resistor nr 1 current strenght:

Resistor nr 2 current strenght:

Resistor nr 1 voltage:

Resistor nr 2 voltage:

Resistor nr 1 resistance:

Resistor nr 2 resistance: