

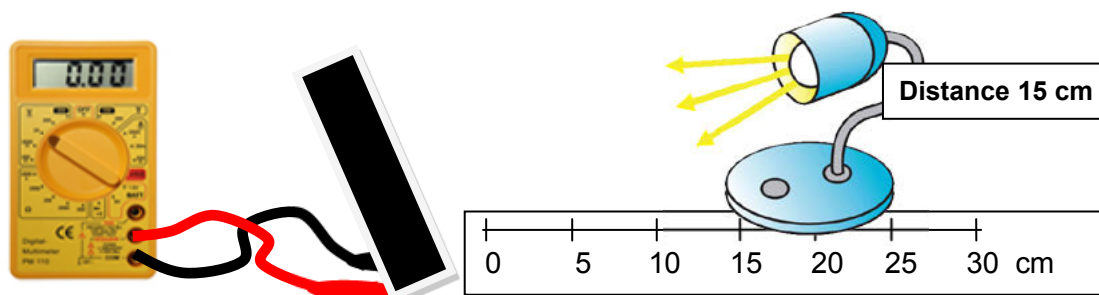
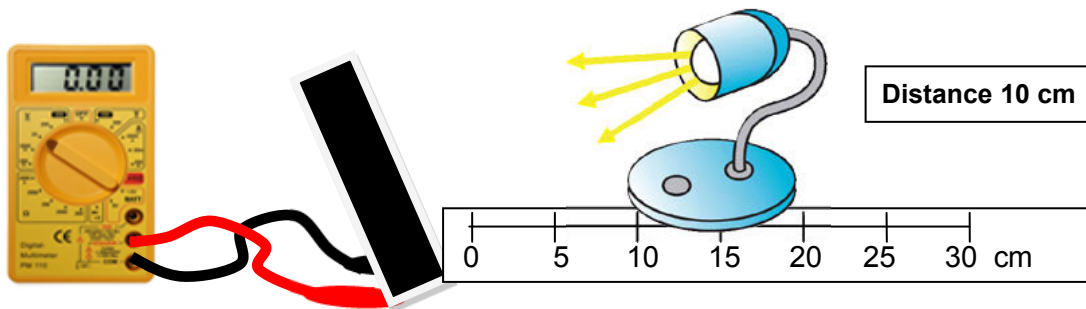
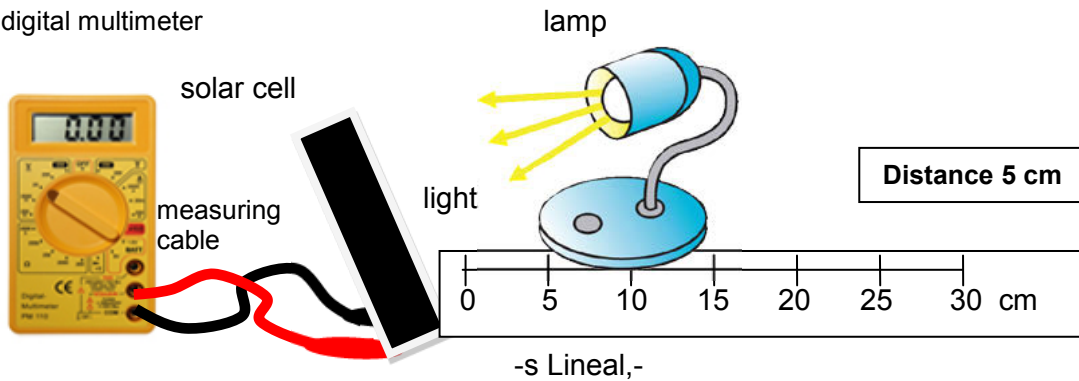
## Worksheet 2: Short-circuit current and no-load voltage at different distances from the lamp

### Task 1

Conduct the experiment.

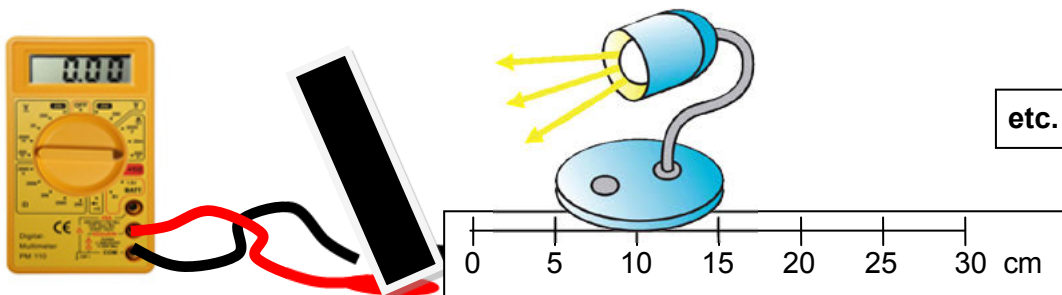
#### Voltage measurement

digital multimeter



etc.

## Current measurement



## Task 2

Enter the measured values into the data table and draw the circuit diagrams.

### Circuit symbols

Voltmeter (digital multimeter – voltage measurement)



Ammeter (digital multimeter – current measurement)



Solar cell



Circuit diagram	Data table: Distance – voltage							
	Distance d (cm)	0	5					
	Voltage V (V)							

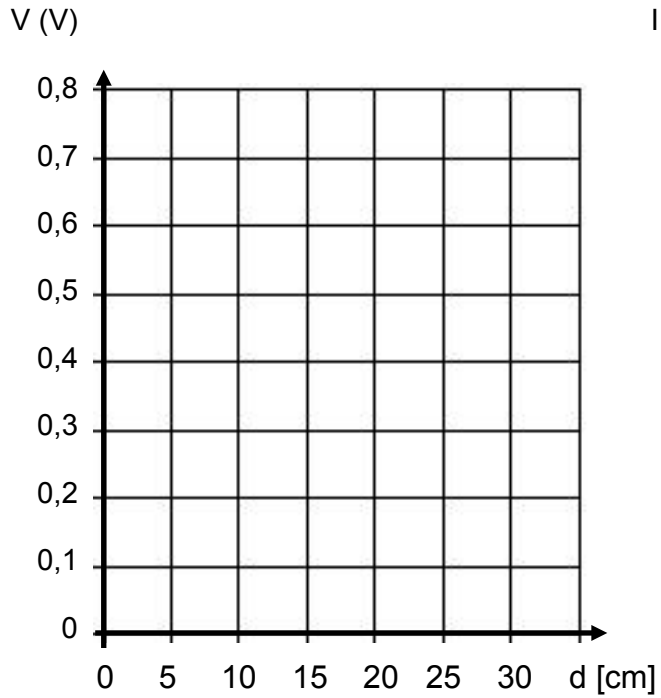
Circuit diagram	Data table: Distance – current							
	Distance d (cm)	0	5					
	Current I (mA)							

### Task 3

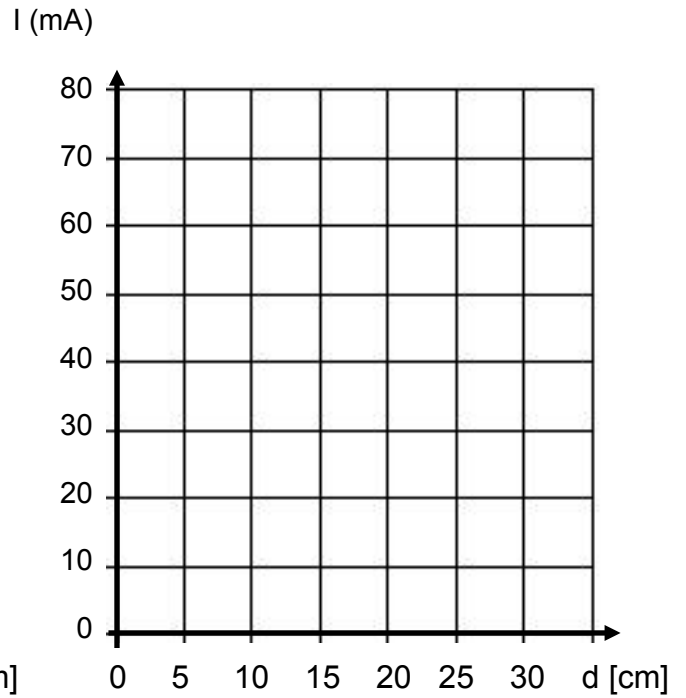
Enter the measured values into the graph paper.

#### Graphs

**Distance – voltage**



**Distance – current**



## Task 4

Describe the method of the experiment with the help of the wordlist.

### Wordlist

solar cell  
digital multimeter  
lamp  
light  
ruler  
distance  
display  
data table  
measurement value  
measurement range

emit  
absorb  
switch on  
change  
read off  
decrease  
increase  
voltage  
current

### Method

First we select the correct measurement range of measurement for the voltage on the digital multimeter. \_\_\_\_\_

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Now we change the distance \_\_\_\_\_

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Then we enter the measured values into \_\_\_\_\_

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The voltage \_\_\_\_\_

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The current \_\_\_\_\_

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