# Worksheet 3: Power output of the dye-sensitized solar cell at different light illuminances

## Task 1

Measure the no-load voltage and short circuit current of your dye-sensitized solar cell at different light illuminances.

#### Measurement of the no-load voltage (V)



#### Measurement of the short-circuit current (I)



# Task 2

Use your measured values to calculate the power output ( $P = V \times I$ ).

## Task 3

Ask the other groups for their results and also enter their measurements into your data table.

#### Data table

Dye-sensitized solar cell	Light source	Distance (cm)	V (V)	I (mA)	P (mW)
Own cell	Sun				
Own cell	Lamp	10			
Own cell	Lamp	20			
Own cell	Lamp	30			