# Solution sheet model 3 – Solar fan

## Topic task

1. Light intensity: The more light hits the solar system, the more electricity the solar modules can generate.
2. Incident angle of the light: By turning the surface of the module, we can adjust the optimal right angle to the light source.
3. Solar cell surface: By connecting multiple solar modules, we increase the capacity of a solar system. More sunlight can be converted into direct current.

## Experimental task

The motor turns faster when the solar modules are connected in a series. With series wiring, the voltages of the solar modules are added; the amperage remains the same. Since the speed of a motor is voltage-dependent, the motor can turn faster. The solar fan generates more wind.