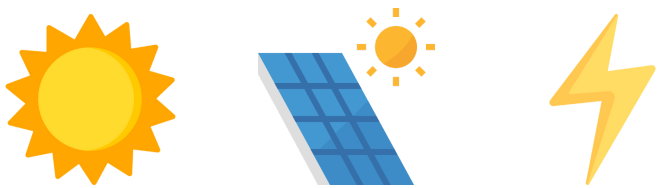


## IS THE ENERGY SUPPLIED BY A SOLAR PANEL ALWAYS THE SAME THROUGHOUT THE DAY?

A solar panel works by converting solar energy into electricity. It is made up of photovoltaic cells that capture sunlight and convert it into electricity using a process called the photovoltaic effect. The electricity produced by the cells is then sent to an inverter, which converts it into alternating current that can be used to power electrical appliances. Because of their durability and ability to produce clean energy, solar panels are considered an important form of renewable energy.

**Can you develop a solution to identify at what time of day the solar panel's electricity production will be optimal?**



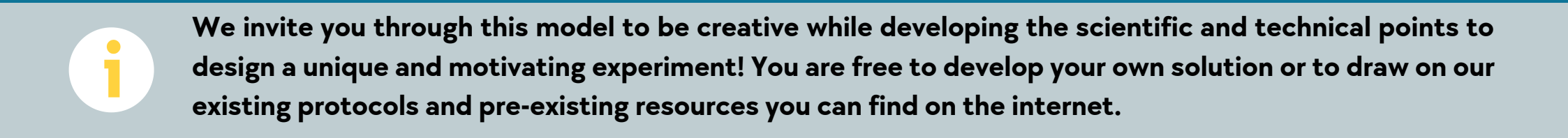
Name your team / Name of the participants:


.....

.....



## DEFINE YOUR SCIENTIFIC EXPERIMENT



 We invite you through this model to be creative while developing the scientific and technical points to design a unique and motivating experiment! You are free to develop your own solution or to draw on our existing protocols and pre-existing resources you can find on the internet.

## ORIENTATION

Briefly introduce your experiment, the issues addressed, the learning objectives. Define the problem to be solved, what are the learning objectives?

## INTERDISCIPLINARITY

Discipline	Concept addressed through the protocol

## CONCEPTUALISATION

Formulate a hypothesis to answer the given problem.



# INVESTIGATION

Describe the steps needed to answer your hypothesis. You could use the following steps as a guide: collect the data and use sensors, display the data, make it accessible, analyse the data and conclude, use the data to propose one or more solutions.

Lined area for writing the investigation steps.

Identify the knowledge mobilised during this phase, identify the learnings acquired, reflect on what you have gained as competencies, knowledge and skills.