PROTOCOL

blank working sheet

HOW CAN WE REDUCE THE AMOUNT OF ENERGY WE USE?

Reducing energy consumption is increasingly important for the European Union. Using energy more efficiently can help reduce greenhouse gas emissions and thus combat climate change. Reducing energy demand helps to preserve limited natural resources. In addition, it can stimulate economic growth by encouraging the development of more sustainable technologies and creating new jobs in the energy efficiency and renewable energy sectors.

Can you develop a solution to monitor and reduce energy consumption? You can target a specific sector such as energy consumption in buildings for example.
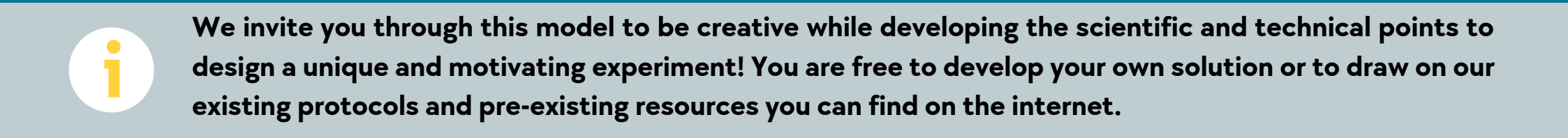
Name your team / Name of the participants:

....

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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.

INVESTIGATION - CONTINUED

CONCLUDE, DEBRIEF

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