

CAN WE MEASURE THE SOUND ATTENUATION BY A MATERIAL?

Sound attenuation refers to the reduction of the intensity or loudness of sound. It is the process of decreasing the strength of sound waves as they travel through a medium or pass through a barrier. This can be achieved through various means, such as absorbing the sound energy, reflecting it, or scattering it. Sound attenuation is important in a variety of applications, including reducing noise pollution in urban areas, improving acoustics in concert halls and recording studios, and minimizing the impact of industrial noise on nearby communities.

Can you find a solution to define what are the materials that can attenuate sound?

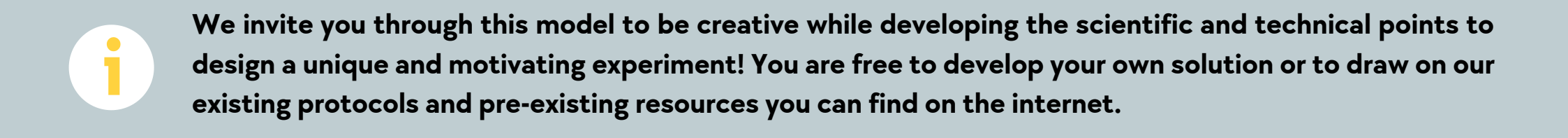
Name your team / Name of the participants:


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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.

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