

Activity 1_2: How is the temperature distributed inside your house model ?

The problem:

It is easy to observe that inside a heated room different places are not at the same temperature. How can we identify places at higher temperatures? Think about the model house you used in the previous activity.

Use two temperature sensors and design an experiment to test your hypothesis. Discuss your ideas with your classmates and the teacher

A group of students has suggested that the temperature in the upper part of the house will be higher than the bottom because "*heat always goes up*".
What does it mean in your opinion the expression "*heat always goes up*"?

Design an experiment that can be used to investigate your classmate hypothesis, and describe accurately the various stages of the design.

After discussing your project with the teacher, carry out the experiment and report below the most significant data.



An heat pump is a machine able to transfer thermal energy from a body at a lower temperature to a body at a higher temperature or vice versa, using different forms of energy, usually electrical. What problems can be incurred if the pump is placed on the wall as shown in Figure?