

The description of the model

The model is an associative image which shows the comparison of some notion , process or phenomenon of science or mathematics with some everyday or natural object, process or phenomenon .

1. Theoretical basis

- Choose a notion, process or phenomenon whose model you will form !
- Look up its definition or explanation in the course book or other source of information !

Notion , process or phenomenon	Definition or explanation
Electric current	An electric current is a flow of electric charge, moving electrons in a wire.

2. and its description

- Choose some everyday , natural or other object , process or phenomenon which , in your opinion , reflects best the scientific/mathematical notion, process or phenomenon chosen in Step 1 of the worksheet!
- Find the image of this object, process or phenomenon or draw it yourself !
- Take into account that the drawing or the image should be easily perceptible , simple and without unnecessary details which could disturb to see the main idea of the drawing or the image !
- Draw or place the image of your chosen object, process or phenomenon into the necessary column !
- Give proof where you see the associations (similarities) between the scientific/mathematical notion, process or phenomenon and the everyday or natural one! Describe your proof into the corresponding column of the table !

Description of the model	Model
<p>Running water flowing through underground pipes. The running water acts like the electric current running through a wire (pipes). Using a pump we can push water through a pipe around a closed circuit.</p> <p>Electrons in a metal can jump from atom to atom, and that way carry negative charge around the circuit. Like a fluid, they are driven by a kind of electric pressure, known as voltage, because it is measured in units known as volts, named after the Italian scientist Alessandro Volta. An electric battery produces (by a chemical process) a voltage difference V between its two ends, and therefore acts like a pump.</p>	