

### Teacher's Guide

You need to remember that the construction phase is also part of the lesson. You need to explain the name of each piece, the symmetry, construction's coherence and stability, structure parts, etc.

#### Answer to worksheet

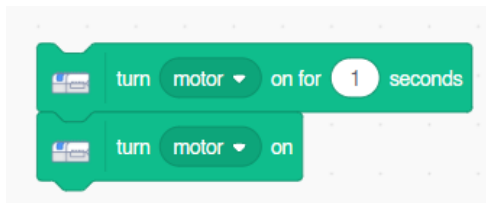
At this stage, you built a mechanism

**What is a mechanism:** a human structure that does a specific operation when humans use it. For example, a bike or a vehicle is a device.

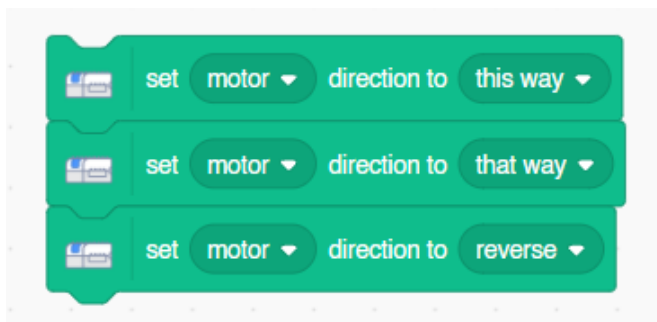
**What is an automation:** A mechanism that uses a simple program and sensors to perform a specific operation, in specific conditions, without human intervention. For example, automatic door in a supermarket that open when we approach them, even when we don't want to enter.

**What is a robot:** A device that contains automations and is controlled with Artificial Intelligence (complex program). A robot has the ability to adjust its behavior when there are changes in its environment. The amount of operations a robot can run depends on the complexity of the program!

Among the two blocks, in the first one the motor is on for only 1 sec, while the second one is activated forever.



For the three blocks below:



In the first one, the motor is rotating clockwise, as we see it from ahead. In the second case, it is rotating anti-clockwise. In the third case, the motor is rotating in the opposite direction than the one it did the previous time it was activated.