

Building a Robot

Post Secondary Level: Science Technology

Overview	Building a Robot and testing its ability to function correctly
Objectives	<ul style="list-style-type: none">• Learn the mechanical part of building a robot.• Learn how to make the robot move.• Work in groups to accomplish a very difficult task.• Be tested on a course that the robot has to maneuver around
Materials	<ul style="list-style-type: none">• Tape for the course that the robot has to follow.• Lego robot kit
Procedure	<ol style="list-style-type: none">1. Explain to the students how the special programming language on the computer on board works, and how it is incorporated with the robot.2. Set the guidelines on what the robot has to do.3. Have the students get into groups and get a leader to lead the project.4. Next, the students are required to take pictures along the way, and make a video of their robot completing the course, and create an Animoto video of a time-line of their robot.
Evaluation	Student progress can be measured by: <ul style="list-style-type: none">• Completion of the course• Completion of their Animoto video• Their group's peer evaluating on how much work was done.