

Name: \_\_\_\_\_

Pattern: \_\_\_\_

Date: \_\_\_\_\_



## The Robot Project

**Introduction:** Technologies continue to advance in all areas of society. There are vacuums like the *iRobot Roomba* that are programmed to automatically clean your floors, or automobile designers like *Tesla* that are testing an autopilot feature! The year 2020 is right around the corner and in the next decade there will be hundreds, if not thousands, of new and improved technologies available. Imagine if you could create your own personal robot that could help you to complete chores, cook food, or help you to get high scores on your favourite video game.

**Your Task:** Design a robot that can assist you in your everyday life. This robot can help you to complete many different tasks and should be original and creative.



TESLA

**Requirements:** Your robot must include:

- At least **3 simple machines** (pictured in the diagram and labelled, or in a separate schematic diagram)
- 1-2 paragraphs describing the robot's **functions and design**
- Flipgrid or 1 paragraph **advertisement** for your robot
- **Name** for your robot
- Neatly coloured and labelled **diagram** of your robot

**Planning:** Use the space below to list 5 specific functions that your robot might have. Use the box to do a rough sketch of your robot.

Overall Function: \_\_\_\_\_

Diagram	Five Specific Functions
	1
	2
	3
	4
	5

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**Assessment Rubric:**

**Robot Name:** \_\_\_\_\_

<p><b>Below Target</b> Areas that Need Improvement</p>	<p><b>Target</b> Standards for this Task</p>	<p><b>Above Target</b> Evidence of Exceeding Standards</p>
	<p><b>Robot Diagram</b> There is a neatly drawn and coloured diagram of the robot. Each feature is neatly labeled and the robot name is in a prominent location on the page. <b>Five specific features must be listed.</b> This may be done as a "schematic diagram," or on the regular diagram. <b>/5</b></p>	
	<p><b>Simple Machines and Power Source</b> There are at least <b>3 simple machines</b> built into the robot and labelled on the diagram. There must be a <b>power source</b> for the robot. <b>/4</b></p>	
	<p><b>Design &amp; Creativity</b> Student met the requirements for a well designed robot . There is a level of care, intention, and quality. The robot has unique features that would help its user. . <b>/3</b></p>	
	<p><b>Function Paragraph</b> The overall general function of the robot is stated and at least <b>5 components</b> are clearly identified and their functions are described in detail. <b>/6</b></p>	
	<p><b>Advertisement</b> There is one paragraph used to advertise and sell the robot. The advertisement is enticing and promotes the features of the robot. A price is given. The advertisement may be written, or take the form of a Flipgrid video <b>/5</b></p>	

\_\_\_\_\_/ 23 marks

**Comments:**