Smart Machines Matching Exercise

Student/Team Name(s):____________________________________________________________

Teacher/Class:____________________________________  Date:___________ Page#:_______

Part I Instructions:
Match terms from the word bank to the correct definition or statement by writing terms on the correct line. Each term is only used once.

Part I Word Bank:

<table>
<thead>
<tr>
<th>Degrees of Turn</th>
<th>Gyroscope</th>
<th>Sensor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Encoder</td>
<td>Programming</td>
<td>Ultrasonic Sound Waves</td>
</tr>
</tbody>
</table>

A(n) _______________ is a device that detects and responds to some type of input from the physical environment.

__________________________________________________________________________

is providing a computer or other machine, such as a robot and its components, with coded instructions for the automatic performance of a particular task.

__________________________________________________________________________

are sounds that are too high of a frequency to be heard by humans.

A(n) _______________ is a sensor that can detect and measure rotation or turning of an object.

__________________________________________________________________________

describes how far an object, like a robot has turned.

A(n) _______________ senses mechanical motion and translates the information into useful data.

Part II Instructions:
Match terms from the word bank and label correctly below each image (images are NOT to scale)

Part II Word Bank:

<table>
<thead>
<tr>
<th>Bumper Switch</th>
<th>Distance Sensor</th>
<th>Smart Motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color Sensor</td>
<td>Gyro Sensor</td>
<td>Touch LED</td>
</tr>
</tbody>
</table>

![Image 1](image1.png)

![Image 2](image2.png)

![Image 3](image3.png)