

Student Name \_\_\_\_\_ Date \_\_\_\_\_

## **ROVER PARTS – SENSORS, ACTUATORS, & PROCESSORS**

THIS ACTIVITY IS ADAPTED FROM *Mars Robotic Education Poster* SUBMITTED BY KEITH WATT, M.A., M.S., ASU MARS EDUCATION PROGRAM, MARS SPACE FLIGHT FACILITY, ARIZONA STATE UNIVERSITY.

DIRECTIONS. YOUR TEACHER HAS JUST EXPLAINED, OR PROVIDED MATERIAL FOR YOU TO READ, SENSORS AND ACTUATORS. NOW, LOOK AT THE PICTURES PROVIDED AND LIST THE SENSOR(S) AND ACTUATOR(S) FOR EACH PICTURE. WRITE YOUR ANSWERS BELOW.

1. SMOKE ALARM  
**SENSOR(S):**

**ACTUATOR(S):**

2. NIGHT LIGHT  
**SENSOR(S):**

**ACTUATOR(S):**

3. STOVE  
**SENSOR(S):**

**ACTUATOR(S):**

4. GARAGE DOOR OPENER  
**SENSOR(S):**

**ACTUATOR(S):**

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5. THERMOMSTAT  
**SENSOR(S):**

**ACTUATOR(S):**

6. TOASTER  
**SENSOR(S):**

**ACTUATOR(S):**

DIRECTIONS. Take a close look at the pictures of the refrigerator (or think of your refrigerator at home) and MARS Rove. In the space below, list the sensors and actuators you can identify in these robots and answer the questions below.

1. REFRIGERATOR  
**SENSOR(S):**

**ACTUATOR(S):**

2. MARS ROVER  
**SENSOR(S):**

**ACTUATOR(S):**