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

**EV3: Overview Lesson 1**



1.  TRUE or FALSE Motor ports are labeled with letters.
2. TRUE or FALSE Sensor ports are labeled with letters.
3. The “Brick” is the \_\_\_\_\_\_\_\_\_ of your robot.
4. Would you consider the “brick” hardware or software? Explain your reasoning.
5. Describe what a gyro sensor allows the robot to do.
6. Which two sensors can detect distance?
7. Which sensor acts as a “bumper”?
8. The \_\_\_\_\_\_\_\_ sensor can detect up to 7 colors or a lack of color, and light intensity.
9. Which comes first in the robotic classroom? TEST, PROGRAM, BUILD: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Explain your answer.
10. Complete the chart to the left. Did you complete it? Why was it hard or easy for you to complete?
11. Have you ever built a robot before? What types of robots have you built and what did you learn?
12. How will you help this classroom stay organized?
13. What are the 3 or more things that you must do in the last five minutes of class?
14. LEGO MINDSTORMS is a programmable robotics construction series that gives you the power to build and program your own LEGO robots. The LEGO MINDSTORMS EV3 set includes everything you need – motors, sensors, programmable brick (P-brick), cables, remote control and TECHNIC elements – to create robots that walk, talk, move and do whatever you want them to. Building your own robot and programing it through the intuitive software program, the P-Brick or your smart device allows one to truly create and command it!

What 3 devices that have you have seen in the room or outside of the classroom/online/from a friend that you would like to design?

1. ***Did you know??*** You can download the building instructions for TRACK3R, SPIK3R, R3PTAR, GRIPP3R and EV3RSTORM from [www.LEGO.com/mindstorms](http://www.LEGO.com/mindstorms). You can also download them as 3D building instructions as part of our **EV3 3D Builder app** which is free to download for iOS and Android tablet devices from App Store and Google Play.

What two places can you attain 3D building instructions?