# LINE FOLLOWING ROBOT

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| **DESCRIPTION** |  |
| IMG_5070 | What if you can tell the robot where to go? This line follower will follow a black line. |
| **PART 1 - PREPARATION** |  |
| **IMG_4912** | Make sure you have the base car built. If not, finish building the base car (page 2) and come back here. |

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| **PART 2 - SENSOR** |  |
| **C:\Users\Timothy Lock\AppData\Local\Microsoft\Windows\INetCache\Content.Word\IMG_5083.jpg**  3  3 | Part 2 requires these pieces. |
| **IMG_5081** | Assemble these two pieces. |
| **IMG_5078** | Then attach two sticks to one of those pieces. |
| **IMG_5073** | Construct the sensor as shown. |
| **IMG_5072** | Attach the piece to the opposite side of the ball bearing on the robot. **Plug the colour sensor into Port 1.** |
| **PART 3 – TRACK SETUP** |  |
| http://robotsquare.com/wp-content/uploads/2012/11/1basic.png | Using the pieces, you can **build any track you want** and the robot will follow it. The track on the left is only an example. |
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**USING THE LINE FOLLOWING ROBOT**

Place the line follower on the line and watch as the robot follows your track!

**DID YOU KNOW?** – The robot does not follow the line; in fact, it follows the edge of the line. When it detects that it is on the line, it veers right. When it detects that it is off the line, it veers left.