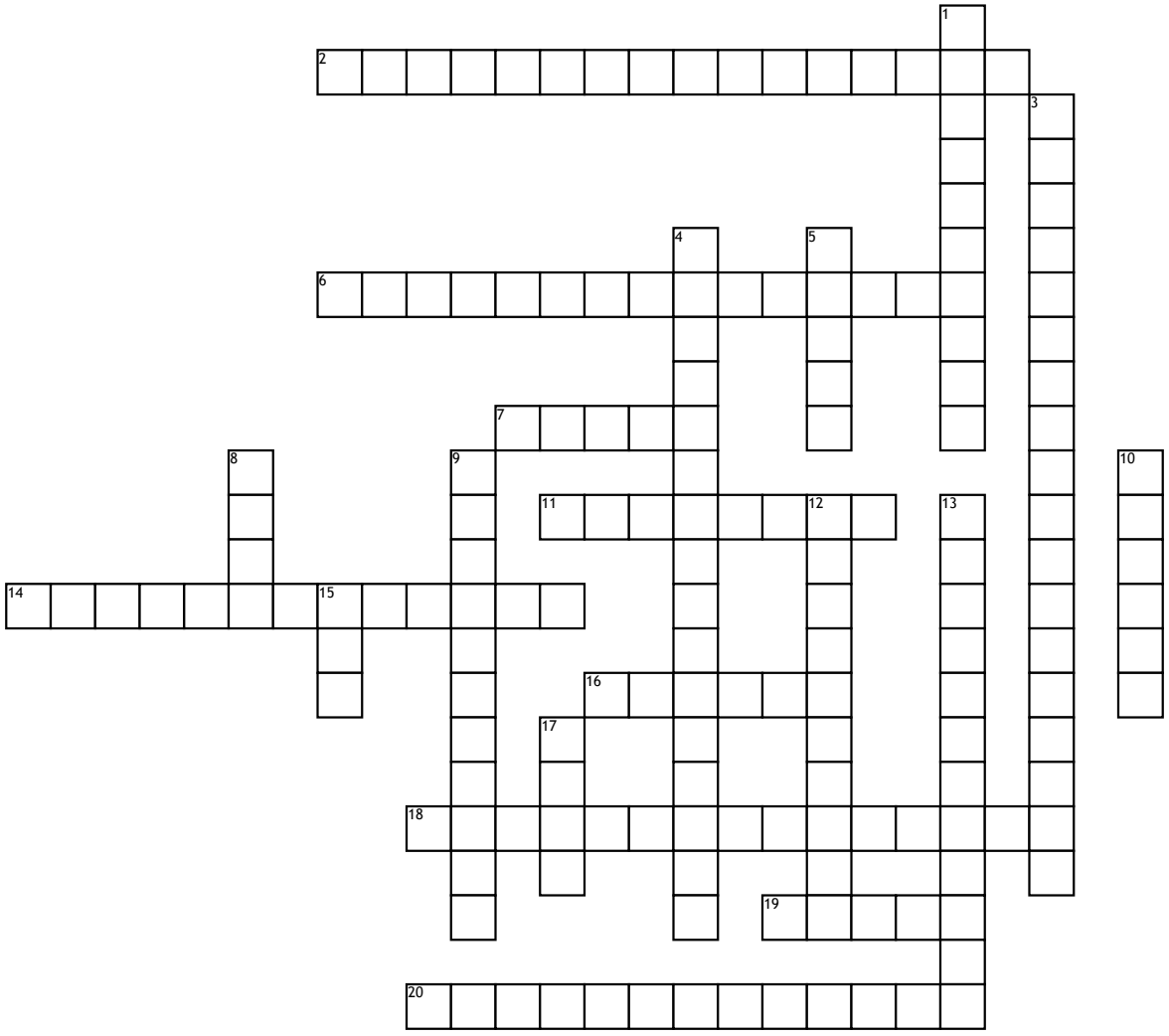
Name: _____ Date: _____

Robotics



Across

2. The procedures use mathematical algorithms along with joint sensors to determine its location of a robot

6. re-programmable multifunctional manipulator designed to move material, parts, tools, or specialized devices, through variable programmed motions for the performance of a variety of tasks

7. This is commonly used as a non-contact sensor for robots. Robotic applications include: distance finding, identifying accurate locations, surface mapping, bar code scanning, cutting, welding etc.

11. The study of motion, the forces that cause the motion, and the forces due to motion.

14. removes drive power from the robot actuators, and causes all moving parts to stop.

16. It help the robot to determine the environment of the robot like light heat.

18. predicting the behavior and the operation of a robotic base the look of it

19. It can determine a position and orientation of an object in space, as well as the robot's position within its model.

20. able to add resources to the system, such as memory, larger hard drive.

Down

1. The robot predicting the behavior and the operation of a robotic, kinematics emulation, path-planning emulation, and simulation of sensors. See Sensor, Forward Kinematics, and Robot.

3. devices or computers separate from the robot for later input of programming information to the robot.

4. industrial robotic arm transfers materials from one place to another.

5. It moves and use mostly on this I can work will out it

8. It can work without you can build fine and it not being supporter by something

9. Follows commands you tell the robot

10. I help the robot move it arms or move

12. An information processing device whose inputs are both the desired and measured position, velocity or other pertinent variables

13. object to the workplace by gravity. Usually, a chute or container is so placed that, when work on the part is finished, it will fall or drop into a chute or onto a conveyor with little or no transport by the robot

15. Computer aided design can be say in a short way is

17. This items we use to build buildings fix robot house.