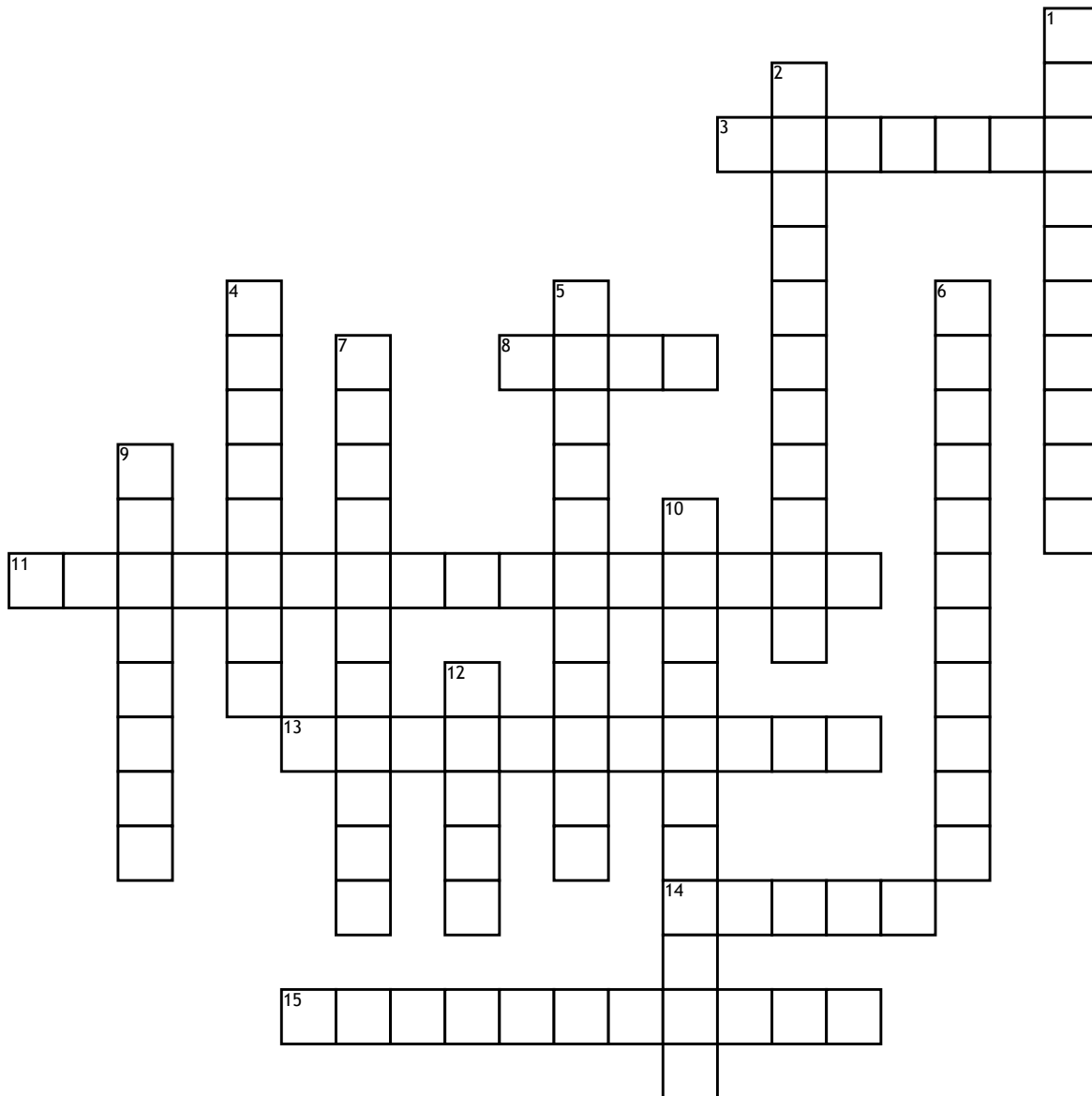


Name: _____

Date: _____

Lego Mindstorms



Across

3. A written note in the program that explains something about that portion of the program.

8. General term for any command or group of commands in a program. In the NXT Programming Software, this is one or more blocks.

11. Uses sound waves to detect and measure distances from objects.

13. Recognizes seven different colors, measures reflected light intensity and detects ambient light

14. A machine that is able to interact with and respond to its environment. characterized by three central capabilities: the ability to Sense, the ability to Plan, and the ability to Act.

15. An NXT sensor that detects sound waves and reports the amount of sound back to the NXT

Down

1. Ports A, B, C, D on the NXT Brick

2. An NXT sensor that detects physical contact and reports back to the NXT whether its contact area is pushed or not.

4. The special program pre-loaded on the NXT that tells it how to run other programs.

5. The Touch Sensor reacts to touch and release, enabling your robotic creation to "feel"! It can detect single or multiple button presses, and reports back to your micro-computer.

6. Assists in helping your robot to "see." Using the NXT Brick , it enables your robot to distinguish between light and dark, as well as determine the light intensity in a room or the light intensity of different colors.

7. Ports 1,2,3,4 on the NXT Brick

9. The NXT Intelligent Brick, your robot's "brain," features a powerful microprocessor and Flash memory, plus support for Bluetooth™.

10. The study and application of science, mathematics, and technology to find solutions to real-world problems.

12. The designated areas for connecting sensors and/or motors to the NXT.