Human Robot

1. **Work** with a partner. One person is the programmer, the other one is the robot.
2. **Blindfold** the robot partner.
3. **Hide** a piece of candy or other small object nearby.
4. **Challenge** the programmer to give verbal directions to the robot to find and pick up the hidden object.

Follow My Lead

A robot completes a task by following a list of instructions called a **program**. It will follow the instructions exactly, even if they don't make sense! A programmer writing instructions for the robot must test the program and look for errors, which they can fix or "**debug**". There are many different **programming languages**.

Self-Control

An **autonomous** robot is programmed to complete a task without an operator controlling it. It must have **sensors** to respond to the environment, such as sound, touch, or light. For example a robot rover may be programmed to move forward until the sensor detects a wall, and then turn.

NAVY NOTES

The U.S. Navy's SeaFox is an **unmanned underwater vehicle** designed for detection and disposal of underwater mines. The robot has sensors and motors for navigation, along with cameras and fiber-optic cable for communication with the operator.