Name_____

Creative Engineering: An Introduction to Arduinos 💡

The Basics

1. An Arduino is a type of _____ that acts like the "brain" for electronic projects.
2. The four essential parts of an Arduino build are _____, _____, _____, and the wires that connect them.
3. Inputs are also called _____ and are like our senses (eyes and ears) because they gather information from the world.
4. Outputs are also called _____ and are like our muscles because they perform actions based on the Arduino's instructions.
5. An example of an input mentioned in the video is a _____, and an example of an output is a _____.

Electricity and Circuits

Name_____

6. Electricity is simply _____ moving.

7. An electrical circuit is compared to a _____ for electrons to travel on.

8. A _____ acts like a gate in the circuit, stopping the flow of electrons.

9. A circuit is complete when electrons can flow from the _____ terminal to the _____ terminal of the battery.

Programming and Building

10.   The software used to program an Arduino is called the _____.

11.   An Arduino program is called a _____.

12.   The two main sections of a program are the _____, which runs once, and the _____, which runs continuously.

13.   You don't need to know how to code from scratch because there are many _____ of code available online that you can copy and paste.

14.   A _____ is a temporary platform used to easily prototype and test a circuit without soldering.

15.   For mass production, you would create a custom _____ that packages all the components together.