**Introduction to Arduino**

1. Describe the purpose of the following Arduino commands. Use the internet as a resource if you need to. You will want to include some of this information in the comment statements you include in your sketch.

* Setup
* Loop
* Delay
* pinMode
* digitalWrite

1. Go on the internet and find a vendor where you can purchase the things we used in this lab. Complete the following table. (Note- you may find a kit that includes many of the components. Just note that in the details column)

|  |  |  |  |
| --- | --- | --- | --- |
| **Component** | **Vendor** | **Cost** | **Details**  (i.e. part of a kit, number of items in package, etc.) |
| Arduino Uno |  |  |  |
| Half size breadboard |  |  |  |
| Plastic mounting plate for Arduino and breadboard |  |  |  |
| 7 male-male jumper wires |  |  |  |
| 5 LEDs and resistors |  |  |  |
| USB cable to connect computer to Arduino |  |  |  |
| **TOTAL cost =** | |  |  |

3. Use the internet to find Arduino sensors that you could use to make measurements for a science project. Choose two and state a question that you could answer using the data from these sensors.