Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Lesson 2: Digital Camera Charge**

Digital cameras are bulkier and require more energy than smaller electronics like MP3 players. Even though the two types of electronics may be able to use the same battery for the same price, the time the charge lasts will be different.

**Doing the Science**

1. Start the Super Cells Simulation by clicking on the “Sim” tab.

2. Click on the digital camera on the right of the top shelf.

3. Click on Battery A and click the Test button.

4. Next, record the cost, type, and mWh in the Table below.

5. Repeat steps 3 and 4 for each Battery until you’ve completely filled out Table 1.

**Table 1.**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Battery** | **Cost ($)** | **Battery Type** | **mWh** |  | **Battery** | **Cost ($)** | **Battery Type** | **mWh** |
| **A** |  |  |  | **N** |  |  |  |
| **B** |  |  |  | **O** |  |  |  |
| **C** |  |  |  | **P** |  |  |  |
| **D** |  |  |  | **Q** |  |  |  |
| **E** |  |  |  | **R** |  |  |  |
| **F** |  |  |  | **S** |  |  |  |
| **G** |  |  |  | **T** |  |  |  |
| **H** |  |  |  | **U** |  |  |  |
| **I** |  |  |  | **V** |  |  |  |
| **J** |  |  |  | **W** |  |  |  |
| **K** |  |  |  | **X** |  |  |  |
| **L** |  |  |  | **Y** |  |  |  |
| **M** |  |  |  | **Z** |  |  |  |

**Do You Understand?**

1. For the digital camera, which battery lasts the longest? The shortest?