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



**Lesson 1: MP3 Charge**

MP3 players have become super portable and consume less energy than bulkier electronics. But which battery type lasts the longest?

**Doing the Science**

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

2. Click on the MP3 player on the left 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 MP3 player, which battery lasts the longest? The shortest?