

Name \_\_\_\_\_

Date \_\_\_\_\_

Per \_\_\_\_\_

### 100 Penny Half-Life Lab

The half-life of a radioactive element is the time it takes for half of the radioactive atoms to decay. This lab was designed to simulate the decay of the radioactive element **Phosphorus** in a fictional lab box.

#### Materials:

1. 100 pennies per group
2. 1 Plastic lab bin, with lid, per group
3. Group Role paper at each table group. (Read this first)

#### Procedure:

1. First, make sure you have 100 pennies. Place the pennies into the bin so that they are all **HEADS UP**. Heads represents the **unstable** element.
2. Cover the bin and shake it **FIVE TIMES** vigorously so that the pennies are well mixed. Each shake of the bin is equal to 5 years. All pennies should be lying flat so make sure there are no pennies leaning against the side of the bin.
3. Open the bin and remove all pennies that are **TAILS UP**. Pennies that are tails up represent the **stable** element. Stack the pennies up in a column.
4. Record, on your data table below the number of pennies **remaining** in the bin.
5. Repeat steps 2-4 until only one (or zero) penny remains in the bin.

#### Data Table:

| Total # of Half-Lives | Total # of Years | Pennies remaining in bin |
|-----------------------|------------------|--------------------------|
|                       | 0                | 100                      |
| 1 (5 shakes)          | 5                |                          |
| 2 (5 shakes)          | 10               |                          |
| 3 (5 shakes)          |                  |                          |
| 4 (5 shakes)          |                  |                          |
| 5 (5 shakes)          |                  |                          |
| 6 (5 shakes)          |                  |                          |
| 7 (5 shakes)          |                  |                          |
| 8 (5 shakes)          |                  |                          |
| 9 (5 shakes)          |                  |                          |

#### Follow Up Questions – 5 points

1. Approximately what fraction of the remaining pennies was removed from the bin after each trial? \_\_\_\_\_
2. How many trials did it take until the bin contained only one or zero pennies? \_\_\_\_\_
3. If 1 shake of the bin equals 5 years, how many years is 1 half-life? \_\_\_\_\_
4. Imagine that the bin is a fossilized bone. When you found the fossil it contained 25 nanograms of a radioactive element. When the bone was first fossilized, it contained 100 nanograms. If the half-life of the radioactive element is 5730 years, how old is the fossilized bone? Show your work! (2 points) \_\_\_\_\_

Use **(insert a reference to a resource here, ie. textbook, webpage)** to answer the following questions:

5. The amount of a radioactive element goes down by how much (fraction, percent) for each half-life? \_\_\_\_\_
6. How old are the oldest rocks found on the moon? \_\_\_\_\_
7. What do scientists estimate Earth's age to be? \_\_\_\_\_

# Chemistry Half Life Lab Pennies Answers

**R Pring**



## **Chemistry Half Life Lab Pennies Answers:**

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