**Introduction to the Mole Activity # 2**

**Names \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Purpose**

To discover a method of using a scale to count “things” that you are not able to see.

**Procedure**

1. In addition to being able to tell the number of items in a Hawk, you can now tell the mass of a HAWK of tootsie rolls, M&Ms/skittles, and Swedish fish. Use your data table on page # 1 of

**ACTIVITY # 1 Introduction to the Mole** or class data to fill in the information below:

Based on your measurements, the mass of 1 HAWK of M&M/skittles is \_\_\_\_\_\_ g.

The mass of 1 HAWK of Swedish fish is \_\_\_\_\_ g.

The mass of 1 HAWK of tootsie rolls is \_\_\_\_g

2. Calculate each of the following:

The mass of 100 HAWK tootsie rolls is \_\_\_\_ g.

The mass of 1/2 HAWK of tootsie rolls is \_\_\_\_ g.

Write the directions for finding the mass of a given number of HAWKS. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*NOTE THAT ALTHOUGH THE NUMBER OF ITEMS (PARTICLES) IN AN HAWK IS THE SAME, THE* ***MASS*** *OF AN HAWK* ***OF DIFFERENT ITEMS IS DIFFERENT***.

**Questions**

Use your directions above to answer the following questions:

The mass of 4 HAWKS of tootsie rolls \_\_\_\_ g.

The mass of 25 HAWKS of tootsie rolls is \_\_\_\_ g.

The mass of 0.5 HAWKS of tootsie rolls is \_\_\_\_ g.

The mass of 3 HAWKS of Swedish fish is \_\_\_\_\_ g.

The mass of 100 HAWKS of Swedish fish is \_\_\_\_\_ g.

The mass of 1/5 HAWKS of Swedish fish is \_\_\_\_\_ g.

The mass of 60 HAWKS of M & M’s is \_\_\_\_\_ g.

The mass of 0.1 HAWKS of M & M’s is \_\_\_\_\_ g.

How would you calculate the number of HAWKS if you know the mass of a package of M & M’s?

How would you calculate the number of HAWKS if you know the mass of a package of Swedish fish?

How could you find the mass of a HAWK of pencils given the massof one pencil?