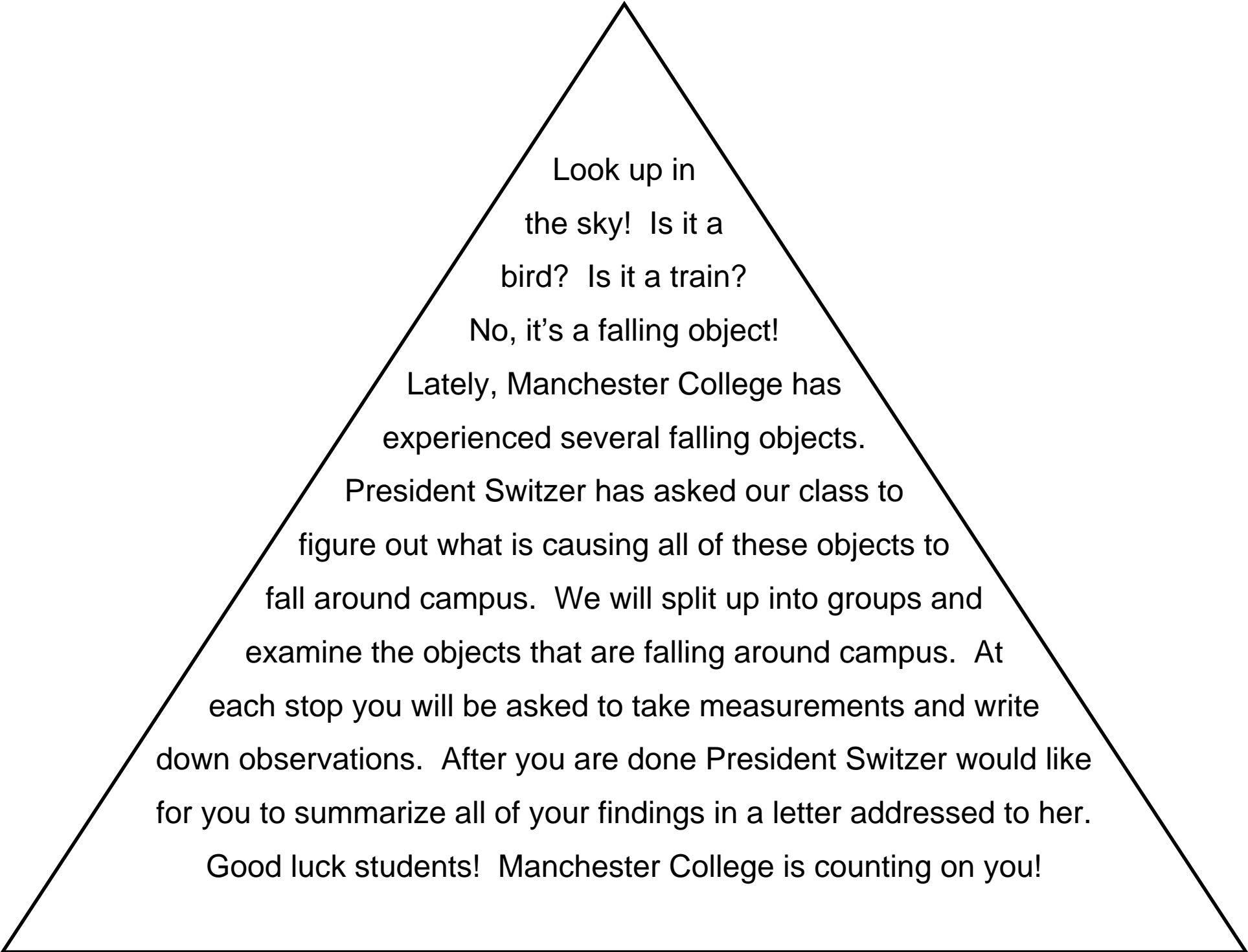


**Danger  
Falling  
Objects**



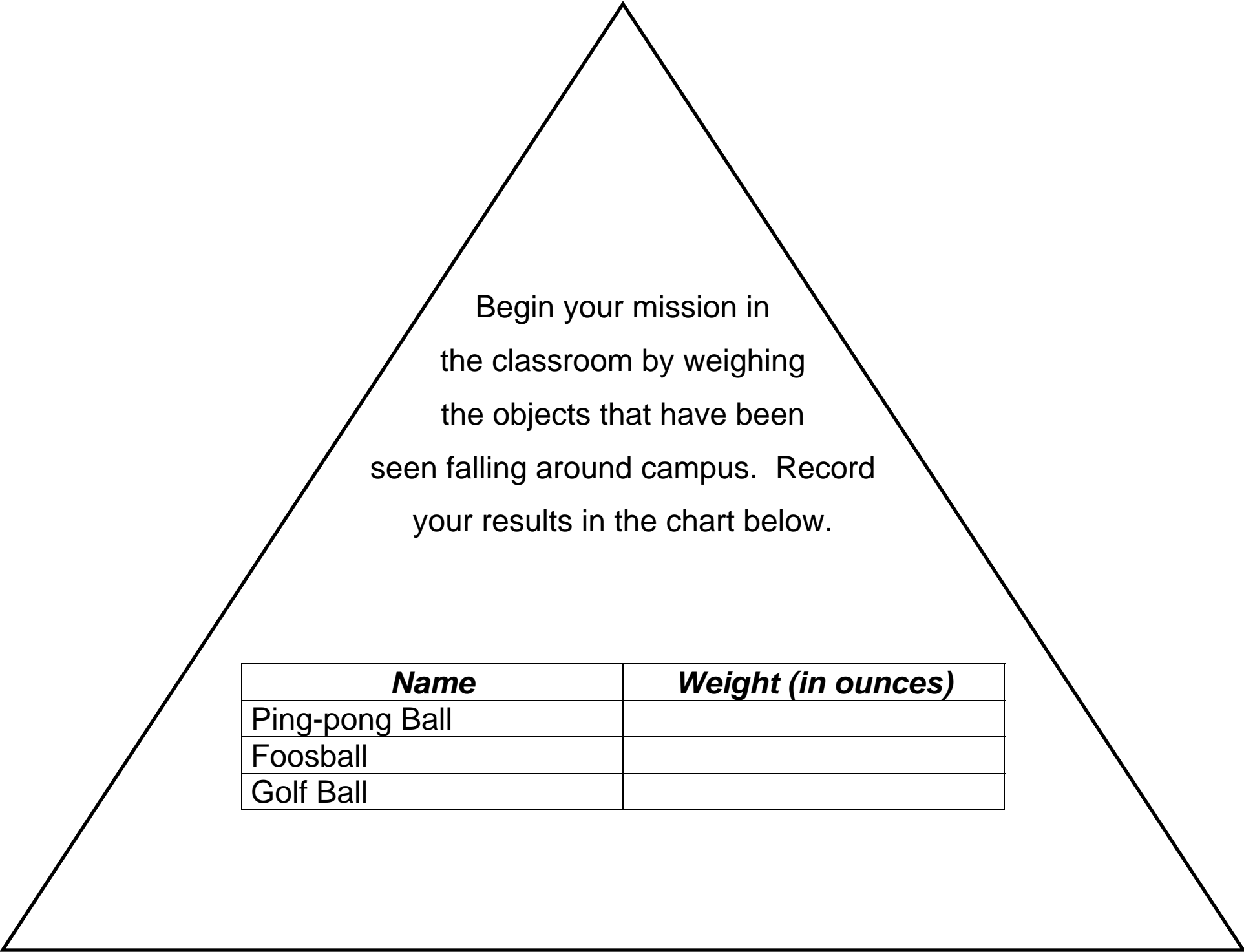
Look up in  
the sky! Is it a  
bird? Is it a train?

No, it's a falling object!

Lately, Manchester College has  
experienced several falling objects.

President Switzer has asked our class to  
figure out what is causing all of these objects to  
fall around campus. We will split up into groups and  
examine the objects that are falling around campus. At  
each stop you will be asked to take measurements and write  
down observations. After you are done President Switzer would like  
for you to summarize all of your findings in a letter addressed to her.

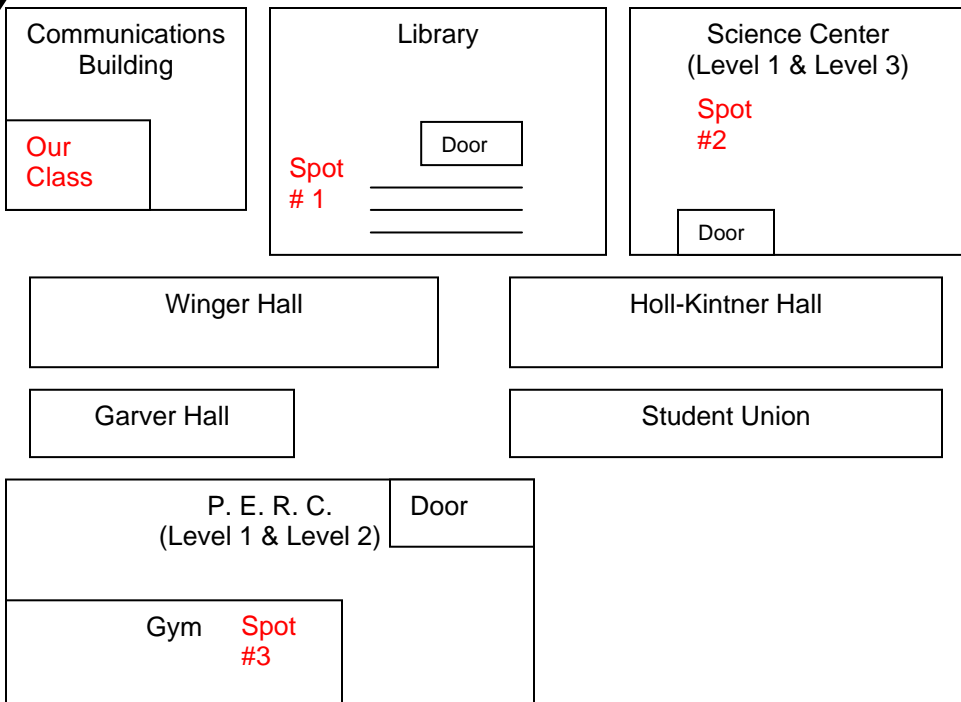
Good luck students! Manchester College is counting on you!



Begin your mission in  
the classroom by weighing  
the objects that have been  
seen falling around campus. Record  
your results in the chart below.

<i><b>Name</b></i>	<i><b>Weight (in ounces)</b></i>
Ping-pong Ball	
Foosball	
Golf Ball	

**Follow the map below to locate all of the places items have been falling items have been spotted.**





**At each sight:**

- You will spend fifteen minutes at each spot.
- Measure the distance of the drop from the top to the bottom. Record each measurement on the record sheets provided.
- Use the stop watch to record the amount of time it takes for each object to fall from the top to the bottom of the sight.
- The first person will drop the ping-pong ball. Everyone will record the amount of time it took for the ping-pong ball to fall.
- The second person will drop the foosball. Everyone will record the amount of time it took for the foosball to fall.
- The third person will drop the golf ball. Everyone will record the amount of time it took for the golf ball to fall.
- Everyone will answer the questions on each response page.

**Spot #1:  
Library**



Which ball you think will land on the ground first?

Why? \_\_\_\_\_

Measurement of Drop (in centimeters): \_\_\_\_\_

<b>Name</b>	<b>Time (in seconds)</b>
Ping-pong Ball	
Foosball	
Golf Ball	

Which object fell to the ground the fastest? \_\_\_\_\_

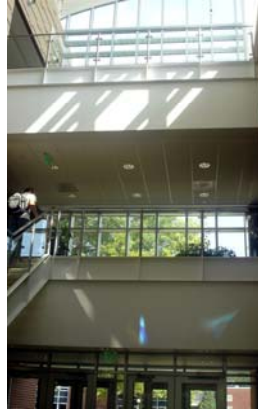
Why do you think that happened? \_\_\_\_\_

Did the difference in weight matter in how fast they fell? \_\_\_\_\_

Was your prediction above correct? \_\_\_\_\_

Why do objects fall to the ground? \_\_\_\_\_

**Spot #2:  
Science Center**



If the balls fall from a greater height, will one ball fall faster than the other balls? \_\_\_\_\_  
Why do you think that? \_\_\_\_\_  
\_\_\_\_\_

Measurement of Drop (in centimeters): \_\_\_\_\_

<b>Name</b>	<b>Time (in seconds)</b>
Ping-pong Ball	
Foosball	
Golf Ball	

Besides the height, was there a difference between this drop and the drop at the library? \_\_\_\_\_ Why? \_\_\_\_\_  
\_\_\_\_\_

Was your prediction above correct? \_\_\_\_\_

What forces cause objects to fall to the ground? \_\_\_\_\_  
\_\_\_\_\_

**Stop #3**  
**P. E. R. C.**



Examine the shoe. How is the shoe different from the balls? \_\_\_\_\_

Weight of the shoe (in ounces): \_\_\_\_\_

How fast will the shoe fall compared to the balls? \_\_\_\_\_

<b>Name</b>	<b>Time (in seconds)</b>
Ping-pong Ball	
Foosball	
Golf Ball	
Shoe	

Did the shoe fall at a different rate than the balls? \_\_\_\_\_ Why? \_\_\_\_\_

What did you learn from these experiments? \_\_\_\_\_

\_\_\_\_\_

**Scientific  
Notes Page**

A large triangle with a black outline, containing 25 horizontal lines for writing. The lines are evenly spaced and extend across the width of the triangle at each level. The text 'Scientific Notes Page' is centered at the top of the triangle.