Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**I CAN** . . . apply scientific processes to design & carry out an experiment.

List the 6 steps of the Scientific Method.

Period \_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**SCIENTIFIC METHOD STEPS**

We have two of the same kind of plants in my house—one on each end

of the couch. I observed that one of the plants was growing much

better than the other.



[](http://www.google.com/imgres?q=healthy+snake+house+plant&hl=en&safe=active&tbo=d&biw=1280&bih=855&tbm=isch&tbnid=93Dy-l9iqTvy0M:&imgrefurl=http://en.wikipedia.org/wiki/Houseplant&docid=CZFM0SW0HHt9jM&imgurl=http://upload.wikimedia.org/wikipedia/commons/thumb/9/91/Snake_plant.jpg/220px-Snake_plant.jpg&w=220&h=293&ei=yhtNUL6cAYHhiALLyIHYDg&zoom=1&iact=hc&vpx=883&vpy=113&dur=5014&hovh=234&hovw=176&tx=97&ty=123&sig=108382927425570601989&page=1&tbnh=152&tbnw=117&start=0&ndsp=28&ved=1t:429,r:5,s:0,i:106)

I also noticed that

every morning my

husband pours the

last of his coffee into

the plant container on

the left (the one with

the healthier plant.)

The mnemonic I’m going to use to remember the six steps of the Scientific Method is:

\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_

1. STEP ONE:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. STEP TWO:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. STEP THREE:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. STEP FOUR:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. STEP FIVE:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. STEP SIX:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**THREE GUIDELINES FOR A GOOD CONTROLLED EXPERIMENT:**

1. Have a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ group which is used for comparison.

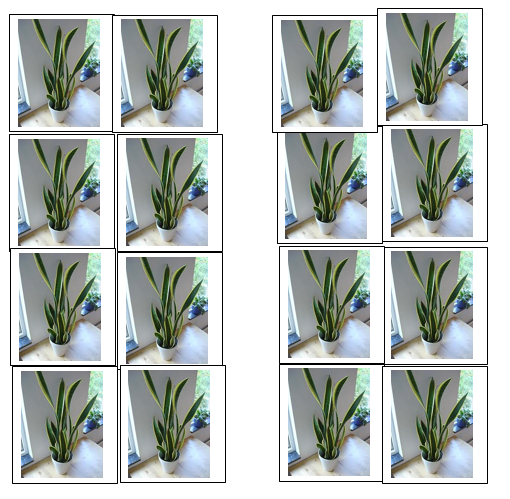
2. Test only \_\_\_\_\_\_\_\_\_ thing at a time.

3. Have the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ possible sample size.

**GROUP 1 GROUP 2**

**PLANTS IN**  **PLANTS WITH COFFEE GROUNDS**

**REGULAR SOIL**  **ADDED TO REGULAR SOIL**











1. In the experiment above, the group that is NOT being tested—used for

comparison is called the \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_.

**Circle** this group above.

2. With a **RED** pen or highlighter, circle the ***ONE thing that you are testing***.

This ONE thing you are testing, the thing you are changing, is also known as the

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. What you observe during the experiment is called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. What are you observing in this experiment?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_