**At-home Experiment for Grade 9 Science students at NSER**

First Step: Do some research on the topic “How do plants live or grow?” Any students that have already email me the response to my April 6th post on NSER Teacher pages have completed this First step.

Second Step: Hypothesis

Form a testable question or hypothesis using the information gained from the research you have conducted. A hypothesis is a testable statement based on background knowledge, research, or scientific reason. For the Testable Question/Hypothesis to correct you must be able to measure the results in this experiment, in other words doable.

Write your Testable Question/Hypothesis below:

Step Three: Material Preparation

Gather all the material need for your experiment:

-Seeds (preferred yellow or green beans seeds or a similar size seed around the size of your baby fingernail.)

-Clear plastic bag ( sandwich bag size or bigger)

-Water

-Paper towel

-bowl

-sunlight

-time

*These materials may be inter-changed depending on your Question.*

Step Four: Procedure

*(some parts of this procedure may be modified depending on your Testable Question)*

1. Soak 20 seeds in home temperature water in a soup bowel and set on a window ledge in the sun for 2 to 3 days or until the seeds germinate or sprout.
2. After germination has occurred gentle move ten sprouted seeds to a wet paper towel being careful not to damage the seeds. If damage has occurred discard these seeds.
3. Measure the length of the sprout or root tip using a string or thread to curve along the edge of the tip and then move the marked portion of the string up against the metric ruler from the measurement. Record the first day measurement in millimeters in the chart below as Day 0. Do the same procedure for all ten seeds.
4. Gentle place the wet paper towel and the seedings in the clear plastic bag. Place the bag or bags onto a sunny window ledge in your house.