

# MUST have to do this

## What's Sprouting Lab

### Materials:

#### Science Kit:

Petri dish,  
radish seeds,  
thermometer

#### From Home:

paper towel or  
newspaper,  
water,  
ruler,  
scissors,  
pen/marker



# Student Conducted LAB!



## CLASS OPENER

I completed the Friday, December 20<sup>th</sup> ASYNCH Lesson!



## CLASS OPENER II

I have **SAVED** and **PRINTED** the **What's Sprouting Lab** document.



## CLASS OPENER III

I collected the required Lab Materials and am ready to set up this lab!



# *What's Sprouting Lab*

**STUDENT CONDUCTED**

## CLASS OPENER

I completed the Friday, December 20<sup>th</sup> ASYNCH Lesson!

**This got you thinking about Plants!**

## CLASS OPENER II

I have SAVED and PRINTED the What's Sprouting Lab document.

**You will need BOTH a SAVED and PRINTED version of the lab!**

You will record your data and do your drawings on the PRINTED version.

(this keeps the computer away from the water)

You will add your data to the saved version for uploading to get a grade!

# *What's Sprouting Lab*

## CLASS OPENER III

I collected the required Lab Materials and am ready to set up this lab!

**YES, YOU are doing this TODAY!**

## Objectives

**ACTION ITEMS**

**It is a STUDENT  
Conducted Lab!**

- What's Sprouting Lab Set Up
- Homework
- Exit Ticket

**ACTION ITEM:**

FOLLOW the  
Scientific  
Method!

**#1**

**RECORD this on the SAVED  
version of the Lab Document:**

Identify the problem

**ACTION ITEM:**

FOLLOW the  
Scientific  
Method!

#2

**Did you do this?**

**It was part of the Lab Prep ASYNCH Lesson.**

Make observations

**READ** Background Information:

**READ:** How Long Does it Take for Radishes to Germinate?

<https://homeguides.sfgate.com/long-radishes-germinate-68498.html>

**If you did not, it is now HOMEWORK!**

**ACTION ITEM:**

FOLLOW the  
Scientific  
Method!

#3

**RECORD this on the SAVED  
version of the Lab Document:**

- State the hypothesis
- $H = IV + DV$ 
  - i.  $IV =$
  - ii.  $DV =$
  - iii. So, the Hypothesis is:

# ACTION ITEM:

FOLLOW the  
Scientific  
Method!

#4

Test the hypothesis, in other words: set up an experiment:

- **Materials**
- **Procedure**



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ruler,  
scissors,  
pen/marker



I have it and am ready!

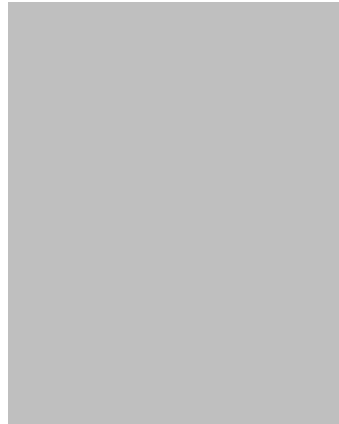
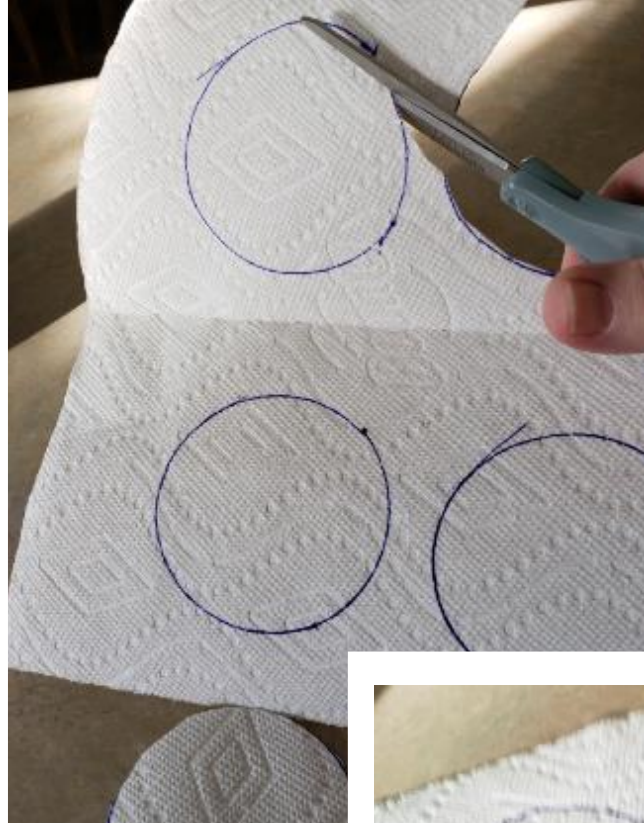


I understand I MUST get these items!

# What's Sprouting Lab **PHASE 1**

## PROCEDURE:

1. On the paper towel/newspaper, trace around the bottom of the Petri dish (smaller side) with the pen/marker. four times.
2. Cut out the FOUR (4) circles.



# What's Sprouting Lab **PHASE 1**

## PROCEDURE

3. Make the circles of paper towel/newspaper wet with water. Squeeze out excess water, but you want the paper damp.
4. Put two (2) layers of the damp paper towel/newspaper in the bottom of the Petri dish.



# What's Sprouting Lab **PHASE 1**

## PROCEDURE

5. Count out ten (10) radish seeds.
6. Place the ten (10) on top of the damp paper towel/newspaper.



**ACTION ITEM:**

FOLLOW the  
Scientific  
Method!

#5

Collect data

- **Three Data Tables**
  - **Phase 1: Cabinet**
    - **Set up TODAY**
  - **Phase 2: Window Sill**
    - Set up Fri, Jan 10
  - **Phase 3: Refrigerator**
    - Set up Fri, Jan 17

# What's Sprouting Lab **PHASE 1**

## PROCEDURE

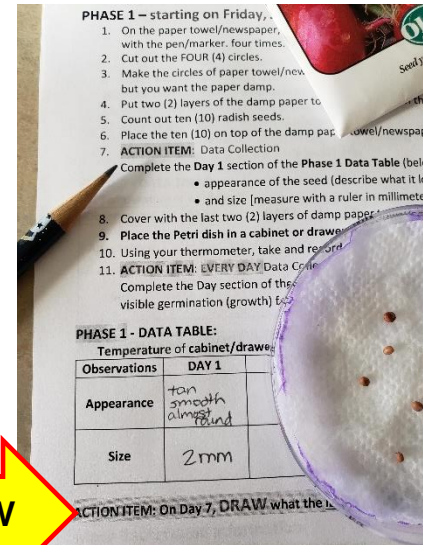
7. **ACTION ITEM:** Data Collection  
Complete the **Day 1** section of the **Phase 1 Data Table** (below) by recording the
- appearance of the seed (describe what it looks like)
  - and size [measure with a ruler in millimeters (mm)] of a seed.



# What's Sprouting Lab **PHASE 1**

## PROCEDURE

- Cover with the last two (2) layers of damp paper towel/newspaper and cover the Petri dish with it's lid.
- Place the Petri dish in a cabinet or drawer where it will not be disturbed.
- Using your thermometer, take and record the **temperature** in the cabinet/drawer.
- ACTION ITEM: EVERY DAY** Data Collection  
Complete the Day section of the Data Table by recording the appearance and size of the seed with the most visible germination (growth) for seven (7) days



**PHASE 2** will be set up and started on FRIDAY, January 10!

# AFTER Phases 2 & 3

**ACTION ITEM:**

FOLLOW the  
Scientific  
Method!

#6, 7  
& 8

## 6. Analyze the data

- Complete Graphs of your Data
  - **MAKE ONE** line graph using:  
<https://nces.ed.gov/nceskids/createagraph/>
  - **INSERT** Line Graph with all Three Phases' Data ...as a JPEG
  - **Examine the Graph of your Data:** You are looking for the most growth.

## 7. Form conclusions

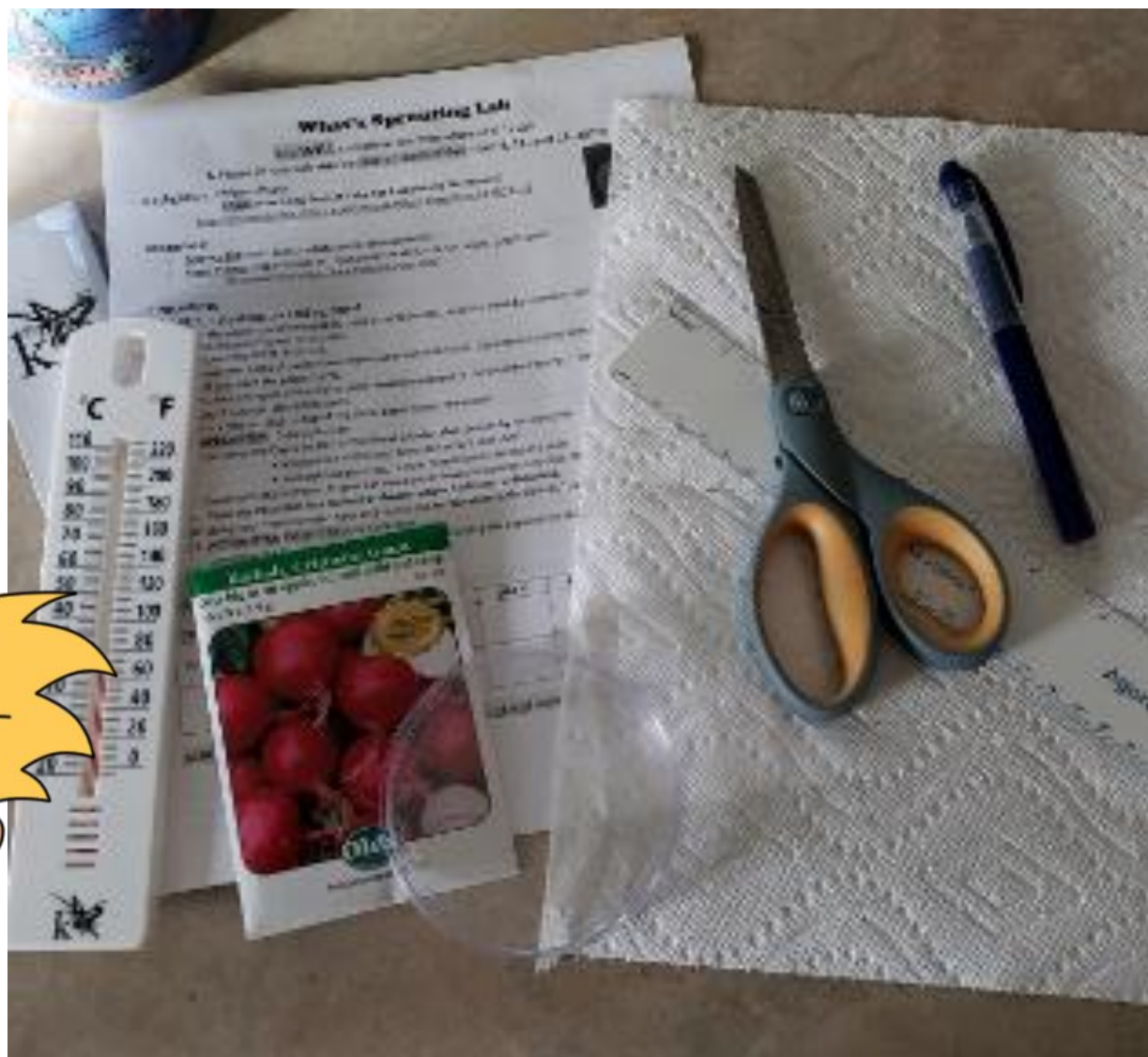
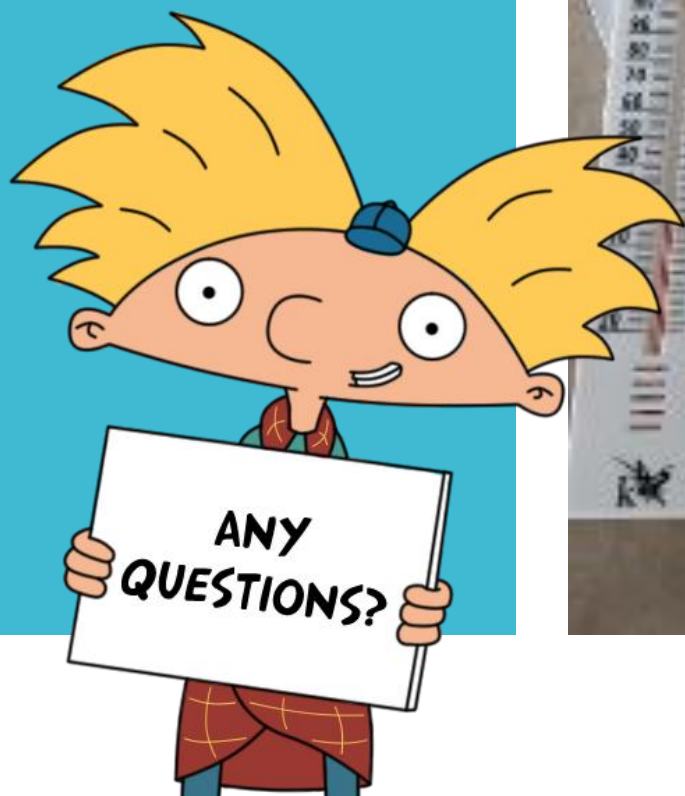
- Based upon the data, which environment is the best for radish seed development?  
(write in complete sentences)

## 8. Write and present your research.

- Make sure all sections (above) are completed and saved.
- And, **SUBMIT** your saved lab document through the Assignments module.
  - Your **PRINTED** lab should have your drawings on it!



# What's Sprouting Lab **PHASE 1**



# HOMWORK

Quiz 9

ENDS Sunday, January 5th

Student Conducted: What's  
Sprouting Lab

1. **SET UP TODAY**  
Friday, January 3<sup>rd</sup>
2. **Start DAILY data collection  
TODAY!**

**READ before Monday**  
**Lesson 5.06**





# Exit Ticket (required)

Click the link to complete your Exit Ticket!

Give a **GREEN** Check when you have it finished!

# ACTION ITEMS

It is a **STUDENT**  
Conducted Lab!

What's  
Sprouting Lab  
**PHASE 1**

**Set Up**  
**NOW**

- You are to use the remainder of class to set up Phase 1 of the lab!



I'm setting up my lab right now.



My lab is ready for DAILY data collection!

