

Name: _____

Group: _____

Period: _____

Group Members: _____

Plant Blog Project

Each group will plant 2-5 seeds of each type of plant (in case one doesn't make it). You will be responsible for your plant for two weeks. Name your plants! Your plants will stay in class during the week and will go home with a group member over the weekend. You will have an opportunity to check on your plant daily and write a blog entry at the beginning of each class. This project is worth an assessment grade and will require the following:

Blog Entries

Your group should have a total of at least 10 blog entries posted on a google doc assigned by the teacher. Each group member needs to write at least 2 of the entries (don't forget to sign your **FIRST NAME ONLY** at the end of the entries). **Each entry should be at least 5 sentences long (feel free to write more) and should be interesting to read.** The topic for each entry is outlined below. Discuss each of the topics as they apply to your plant on that particular day. Include scientific information such as how much water or sunlight your plant received. Your final blog should use, discuss, and explain at least 10 of the terms below with a minimum of two terms per entry.

Topic list:

Day 1- Germination

Day 2- Cell respiration

Day 3- Mitosis

Day 4- Cotyledons

Day 5- Gravitropism

Day 6- Roots & Shoots (Saturday)

Day 7- Transport (Sunday)

Day 8- Phototropism

Day 9- Photosynthesis and gas exchange

Day 10- Reproductive System (prediction)

Key terms to include in your entries:

Phloem, Xylem, Cotyledons, Monocot, Dicot, Stem, Stomata, Guard Cells, Roots, Transpiration, Photosynthesis, Cellular Respiration, Leaf, Chloroplasts, Cohesion, Germinate, Phototropism, and Gravitropism

Remember, you are also writing to entertain us and educate us with your super fun plant growing project! Be creative!

Pictures

You will need at least 10 photos of your plants. Photos may be taken at home or over the weekend, but remember that all photos should be school appropriate and that there should be **NO FACES** in any photo posted on your blog!

Plant Measurements

A data table and graph should be at the top of your blog. You should collect data from your plant as it grows. Measure your plant's height every day (in centimeters) and record it in a data table. Data tables can be created through the google doc. You may also include your data measurements in your daily blog entries if you'd like. At the end of the two weeks you should compile your data into a graph. Graphs are to be created in a google spreadsheet and should be posted on your blog.

The grade earned above will constitute an ASSESSMENT grade. A peer evaluation will constitute another SINGLE DAILY grade! Keep this in mind while you are working with your group. Everyone needs to contribute EQUALLY to the project!

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Plant Dissection Photo & Explanation

At the end of the two weeks you will remove your plant from the soil and dissect it. You must take a picture of your plant with all of the parts labeled. You may lay it on a piece of white paper, label the parts and then take a photo OR you may take a photo and digitally add labels of each part. The photo should be uploaded to the end of your blog entries with an explanation of what you did and the parts.

Label the following parts: Stem, Root, Leaf, Monocot or Dicot, Cotyledons, direction materials travel through phloem and xylem, plant names.

Plant Success & Creativity

Part of this project is about taking care of your living plant. The success of your plant is important to your grade! Should you be left without a single living plant at the end of the project, you will lose 10 points. Also, be creative! You can name your plant and treat it like a part of your family! The more creative you are, the more creativity points you can earn.



Grading Scale:

| | Points Earned |
|---|---------------|
| <u>Blog Entries</u> (at least 10) - Each person must contribute at least 2 entries. Entries must contain at least 5 sentences each and include the proper vocabulary. Proper topics for each entry are used. | _____/40 |
| <u>Pictures</u> of your plant (10) - There should be no HUMANS in the photos! | _____/10 |
| <u>Plant measurements</u> (plant height) in table & graph of plant growth posted on blog | _____/15 |
| <u>Plant dissection</u> photo & explanation (with labels) | _____/15 |
| <u>Plant Success</u> (did your plant survive) | _____/10 |
| <u>Creativity</u> (Does your plant have a name? Did you talk to it? What did you and your plant do over the weekend?) | _____/10 |

Total Points Earned: _____/100

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