My Seed Journal



Name:



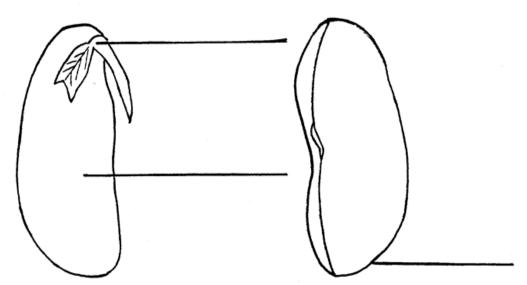
Lesson 1: Journey to the Center of a Seed

Draw yourself as a scientist including the tools you will need to make observations.

Trace the word *Botanist* and draw what a *Botanist* studies.

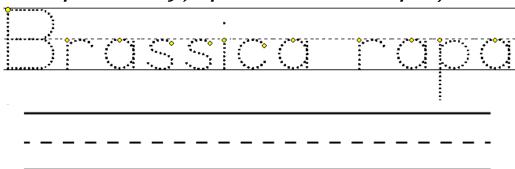
Write or draw what *observations* you made using your Five Senses during the seed dissection.

Label Seed Diagram then write or draw what each part does for the seed.



Seed Coat	Emby	yro	Food Storage

Write the translation of Brassica rapa. (*Hint: Brassica is a yellow sauce often put on hotdogs, rapa is another word for quick*)



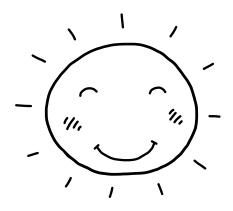
Draw what you predict your Brassica rapa will look like when it grows.

Draw how you planted your seed, including all the materials you used.

Soil	Seeds	Vermiculite	Fertilizer
What do y	ou <i>predict</i> yo	ur seeds need in o	order to wake up?

Lesson 2: Germination and Sprouting

Circle the things you predict your seeds need to *germinate* or "wake up".













Has your seeds *germinated*? Make some new *observations* about your plant then draw what your plant looks like today, including the things it might need to keep growing.

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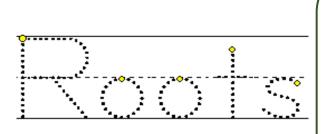
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Lesson 3: Plant Parts and Functions

Practice writing the plant parts and then draw the part in the box provided.



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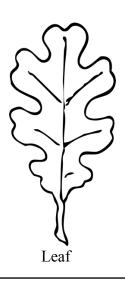
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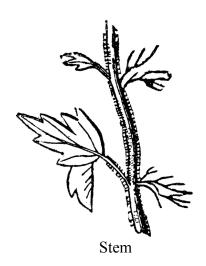
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Directions: Draw or write what each plant parts "job" or function is.







Measure your *Brassica rapa* plants and draw what your plant looks like using your plants real height.

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Lesson 4: How Light Affects Plant Growth.

Draw what you predict your *Brassica rapa* would look like if it didn't get any sunlight. Then compare to the *Brassica rapa* that has been kept away from light.

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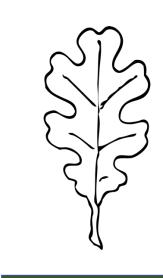
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Was your prediction right? Explain why you think this *Brassica rapa* looks different than your *Brassica rapa* that has been under the lights.

Directions: Draw or write how leaves make food for the plant. This process is called *photosynthesis*. (Hint: Just like baking cookies, there is a recipe for plants to make food. What ingredients does the leaf need? Once the leaf has those ingredients what does it make?)



Measure and draw what your *Brassica rapa* looks like today.

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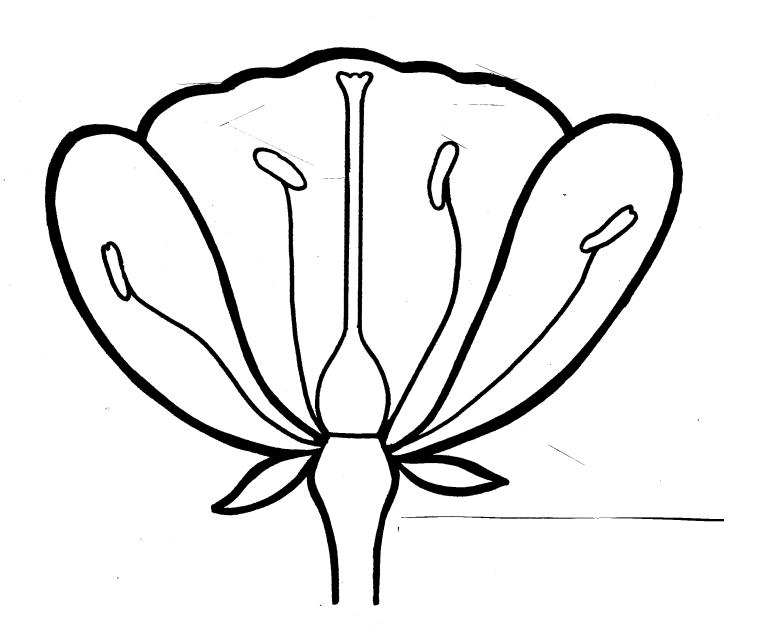
Lesson 5: Flower Parts and Functions

During flower dissection tape each part in the correct box. Or draw each flower part in the correct box.

Petal	Sepal
D. II	Q.
Pollen	Stamen
Pistil	Ovule
1 10011	o vare

Pick your favorite flower part and explain its "job" or function.

Color petals red, color pistil blue, color stem green, color stamen yellow



Measure and draw what your *Brassica rapa* looks like today.

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Lesson 6: Pollination and Symbiosis

Exp	Explain what <i>pollination</i> is, remembering what we learned about the different flower parts.										
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Will flowers produce *seeds* if the flower doesn't get *pollinated*? Circle your answer:

YES NO

Draw or write how insects and animals help plants. Also include how plants also help insects and animals. This process is called *symbiosis*.

Measure your *Brassica rapa* and draw your *observations*.

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Lesson 7: Fruits and Adaptations

Circle *fruits* and color the seeds red. (Hint: there are 5 fruits on the page)



Measure and *observe* your *Brassica rapa* then draw what your plant looks like today.

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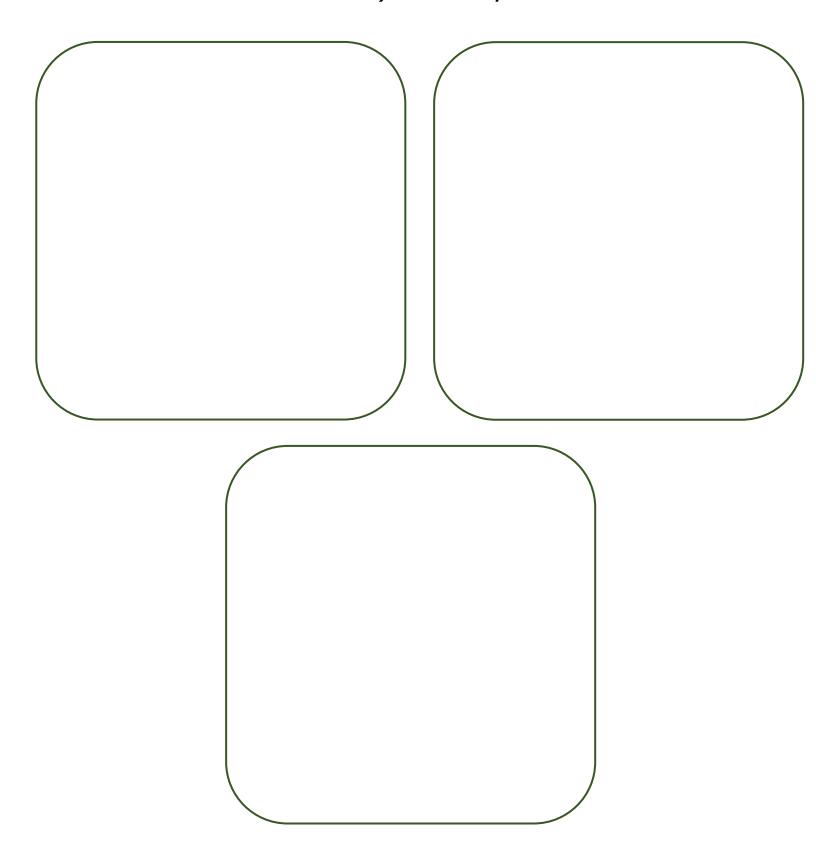
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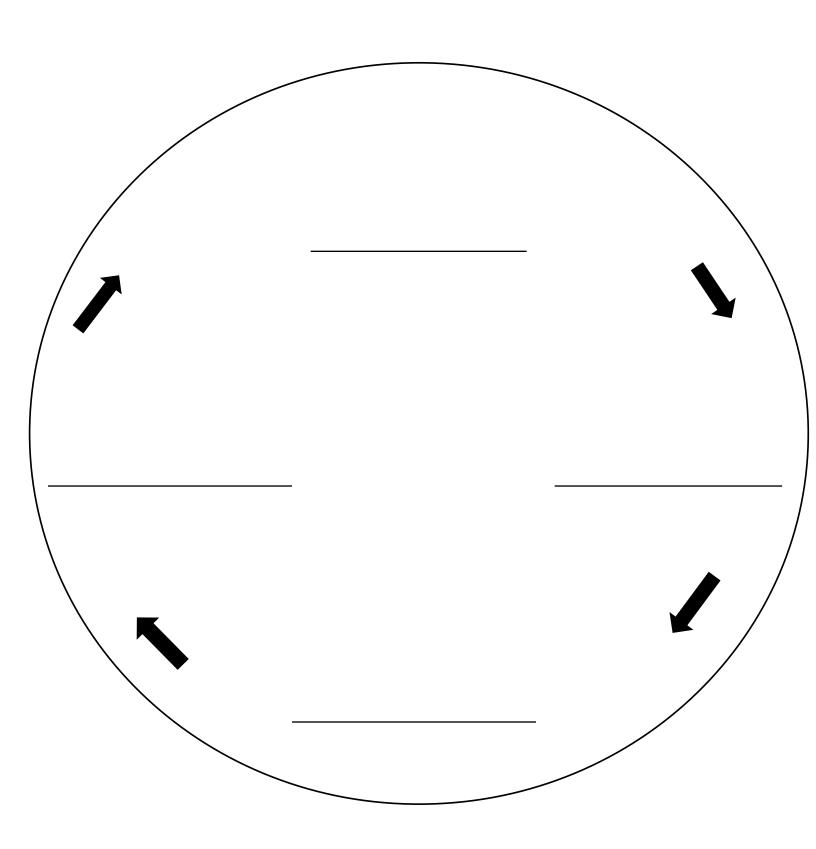
Draw your favorite <i>fruit</i> . Where are the <i>seeds</i> found?
How are fleshy fruits an example of a <i>plant adaptation</i> ?

Lesson 8: Seed Dispersal and Cycle of Life

Draw three ways a seed is *dispersed*.



Draw the *life-cycle* of your Brassica rapa plant. (Hint: Include seeds, germination, stems, leaves, roots, flowers, pollinators, fruits)



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Draw your daily observations				
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Important Scientific Words

Lesson 1:

Scientist: A person who studies things. Botanist: A scientist who studies plants.

Seed Coat: The protective, outter layer of the seed.

Embyro: The baby plant.

Food Storage: The energy for the embryo, also called endosperm.

Prediction: Making a best guess.

Observation: Using five senses to study things.

Lesson 2:

Germintate: When a seed wakes up. Sprout: When a plant begins to grow.

Seed leaves: What is left of the food storage.

Lesson 3:

Root: Part of the plant that holds the plant upright and stores nutrients and water.

Leaf: Part of the plant that is the food factory, making sugar for the plant. Stem: Part of the plant that pulls water up from the roots and pushes food from the leaves down.

Nutrients: A plants vitamins.

Lesson 4:

Photosynthesis: When chlorophyl from inside the leaf takes in sunlight and carbon dioxide and turns it into sugars and oxygen.

Lesson 5:

Flower: Part of the plant that allows it to reproduce (make new plants). Sepals: The outside parts of the flower that protect the other parts of the flower.

Petals: Part of the flower that is brightly colored to attract pollinators. Nectar: A sweet liquid produced by flowers which is food for pollinators.

Stamen: The male part of the flower where pollen is made.

Pollen: Yellow, powdery part of the plant that aids in making new seeds.

Pistil: The female part of the flower where baby seeds are made.

Baby Seeds: Seeds before the flower has been pollinated.

Lesson 6:

Pollinator: Something that aids in bringing pollen from the stamen to the pistil so baby seeds can be pollinated.

Symbiosis: A relationship between two living things.

Lesson 7:

Fruit: Fleshy protective part of the plant that conatins mature seeds.

Adaptation: Something that helps living things stay alive.

Dormant Seed: A seed that is asleep.

Lesson 8:

Mature seed: Seeds that have been fertilized and can be planted to grow new plants.

Seed Dispersal: When a seed travels aways from its parent plant in order to avoid competition.

Harvest: When you collect the part of the plant you want when it has finished its life-cycle.

Compete: When a living things fight for the things they need with other organisms.

Plants Life-cycle: When a seed grows, germinates, sprouts, flowers, then produces seeds so new plants can grow.

References:

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