How Can We Find the Best Place for a Plant to Grow?
1. What does a plant need to grow? (Circle two answers and draw them helping a plant grow.)

- Light
- Animals
- Mountains
- Water

2. Here is a bee on a flower and a squirrel with a nut. Pick one and write how the animal is helping the plant.

3. Imagine you can travel to a new place. It is far away from where you live. What would you see? (Circle one.)

- Mostly (the same different) plants and animals from what I see at home.
1. Fill out the table below.

<table>
<thead>
<tr>
<th>Plant Part</th>
<th>Evidence</th>
<th>What If Does</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fruit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pollen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roots</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Which part might need an animal's help? (Circle one above.)

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1. We are investigating whether __________________ causes a radish to grow.

2. Circle one for each sentence:

   - We should give our two dishes (the same or different) amount of water.
   - We should give our two dishes (the same or different) amount of light.

3. If there are differences in how they grow, we will know the differences were caused by ____________________________.
I See a Bee

1. Draw what you see.

2. What parts could make it a good pollinator?
   
   ________________________________
   ________________________________
   ________________________________
   ________________________________

Light and Water

1. **Question:** Do plants need both light and water to grow?

   **Claim** (circle one):
   
   Plants need light and water to grow.
   Plants only need light to grow.
   Plants only need water to grow.
   Plants do not need light or water to grow.

2. **Evidence about light:**
   
   ________________________________
   ________________________________
   ________________________________
   ________________________________

3. **Evidence about water:**
   
   ________________________________
   ________________________________
   ________________________________
   ________________________________
1. Fill out the table below.

<table>
<thead>
<tr>
<th>Material (write or draw it)</th>
<th>How is its shape or texture useful?</th>
<th>How does it mimic a bee or work as a handle?</th>
</tr>
</thead>
</table>

2. Draw your plan for a hand pollinator. Label each material.
Seeds on the Move

1. Fill out the table below.

<table>
<thead>
<tr>
<th>Shape and texture</th>
<th>Can a fur model move it?</th>
<th>Can a wind model move it?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bean</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cocklebur</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maple</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Which plant needs an animal to move its seeds? (Circle one above.)

Comparing Creations

I am in Group ____

1. Group 1 hand pollinator
   Part with the most pollen:
   __________________________________
   How well did it work?
   
   1
   2
   3

2. Group 2 hand pollinator
   Part with the most pollen:
   __________________________________
   How well did it work?
   
   1
   2
   3
### Finding Patterns

#### Task

<table>
<thead>
<tr>
<th>Task</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Find an animal that could pollinate mountain laurel</td>
<td>could be pollinated by the lesser long-nosed bat</td>
</tr>
<tr>
<td>Find an animal that could hide in eelgrass</td>
<td>could move blue oak acorns</td>
</tr>
<tr>
<td>Find a plant that only lives in a hot land habitat</td>
<td>only lives in a hot land habitat</td>
</tr>
<tr>
<td>Find a plant that lives in a water habitat</td>
<td>lives in a water habitat</td>
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</tbody>
</table>

#### Finding Patterns

1. What pattern is true for all the plants and animals?

   - different
   - similar

2. Which claim is true about habitats in North America? (Circle one.)

   - There are many different habitats with different types of plants and animals.
   - There are many different habitats with similar types of plants and animals.

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**Home on the Range**

- Write the correct answer when you find it.
On the Map

1. Which area(s) of the schoolyard are shady?

2. Which area(s) of the schoolyard are sunny and dry?

3. Which area(s) of the schoolyard have deer but not bees?

4. Which area(s) of the schoolyard are windy and wet?

What I Have Learned

1. Read:
   A student wants to grow a garden. The place he chose gets plenty of sunshine. But there has not been any rain recently. He is wondering what to do.

Circle the problem in the text above.

Draw or write two possible solutions.

1. 

2. 

2. Cherry trees need bees to pollinate their flowers. They need birds to move their seeds. They are getting plenty of sunlight and water, but there are fewer trees growing this year. You want to know why. Write two questions you could ask to learn more.

______________________________________________________

______________________________________________________

______________________________________________________
1. Complete the table. Use the text and images on the cards. Complete the table. Use the text and images on the cards.

<table>
<thead>
<tr>
<th>Plant</th>
<th>Needs to live and grow</th>
<th>Needs for pollination</th>
<th>What it needs to move its seeds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burdock plant</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Milkweed plant</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

2. Which area in the schoolyard would be the best habitat for each plant?

Burdock plant: _________
Milkweed plant: _________

Plant Needs
### Plan It Out

<table>
<thead>
<tr>
<th>Sun</th>
<th>Names:</th>
<th>Sun</th>
<th>Names:</th>
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</tbody>
</table>
How Do the Seeds Move?

We had (circle one):

Mystery Seed A
Mystery Seed B

Claim: The mystery seeds move by (circle one):

- deer
- wind
- turtle
- butterfly

Evidence:

_____________________________________________________________________________
_____________________________________________________________________________
_____________________________________________________________________________
_____________________________________________________________________________
_____________________________________________________________________________
_____________________________________________________________________________
Place That Plant!

Silvia's Argument

Claim: I think we should plant the milkweed plant in Area 3.

Evidence: The seeds look light and fluffy so wind could move them. It has pink flowers. Area 3 is windy, so it is good for moving the seeds. The milkweed grows up to 1 meter (3 feet) tall.

Check Silvia's Argument

Does it have any information that is not important? (Circle one.) Yes No

Draw a line through any information that is not important.

Is it missing any important information? (Circle one.) Yes No

Explain:

_____________________________________________________________________________
_____________________________________________________________________________
_____________________________________________________________________________

Does it explain the area’s habitat as a system? (Circle one.) Yes No

Explain:

_____________________________________________________________________________
_____________________________________________________________________________
_____________________________________________________________________________