


# Lesson 1 - Student Activity Sheets: Is something going to happen to this thing?

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Look carefully  at the wet harvest corn. Draw what you observe in the box below and include labels that give information.




Write what you notice 	Write what you wonder 



## Lesson 2 - Student Activity Sheets: What is this thing made out of?

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Look carefully  at the wet harvest corn. Draw what you observe in the box below and include labels that give information.



**Write what you notice** 

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**Write what you wonder** 

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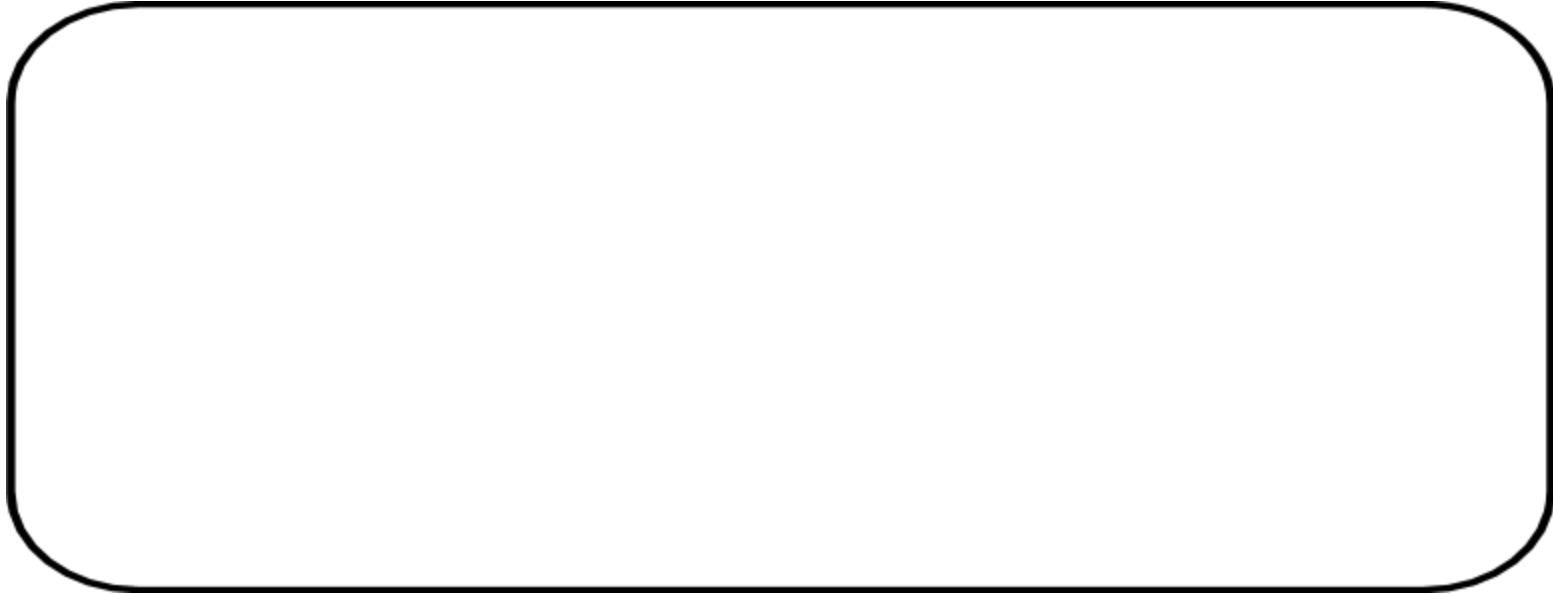
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Look carefully  at the dry corn cob after you take it apart. Draw a picture of it in the box below. Add labels using sensory descriptive words like “soft” or “hard” and colors, shapes, etc. to help show what the corn is like.



From your observation, write what you are wondering about the corn below:



I wonder..... \_\_\_\_\_

\_\_\_\_\_


\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Look carefully  at the wet harvest corn. Draw what you observe in the box below and include labels that give information.



**Write what you notice** 

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**Write what you wonder** 

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# Lesson 4(a) - Student Activity Sheets: Now What Happened to the Wet Harvest Corn?

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Number of days the corn has been growing: \_\_\_\_\_

Look carefully  at the wet harvest corn. Draw what you observe in the box below and include labels that give information.



Write what you notice 	Write what you wonder 
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Write the question your class decided to investigate here:

Experiment #1: **We wondered:**

?

Draw the two different containers that your class decided to plant. Label your drawing.

Container 1	Container 2

What do you think will happen? Write a prediction and give at least one reason for your prediction in the space below.

**I predict that...** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Name: \_\_\_\_\_

Date: \_\_\_\_\_



Look carefully at your results. Draw what you observe in the two different containers that your class planted.

Label your drawings. Include the measurements.

Container 1	Container 2



Name: \_\_\_\_\_

Date \_\_\_\_\_

**Lesson 4C: What is inside a seed that makes it grow?**

**DRY BEAN**

What will the seed look like inside?

**Sketch your prediction** here:



What does the seed **actually** look like inside?

**Sketch what you see** inside the seed here.



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**WET BEAN**

What will the seed look like inside?

**Sketch your prediction** here:



What does the seed **actually** look like inside?

**Sketch what you see** inside the seed here.



Name: \_\_\_\_\_

Date \_\_\_\_\_

How was your prediction similar or different from what you actually observed?

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What is inside a seed that makes it grow?

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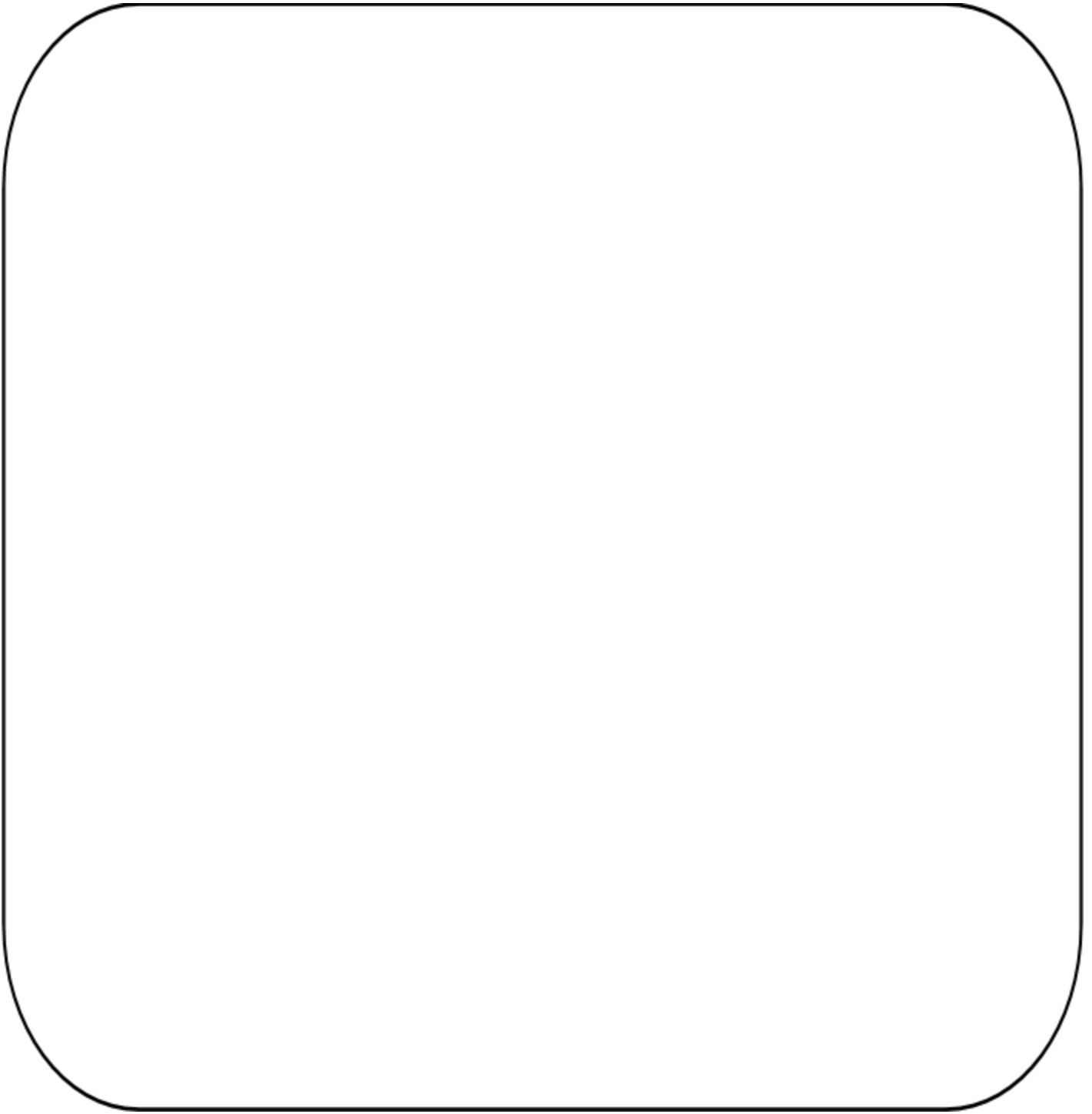
### Lesson 5 - Student Activity Sheets: How Much Did the Wet Harvest Corn Change?

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Date	How long are the green parts in centimeters?	How long are the white parts in centimeters?	Anything else you noticed?

Look carefully at the wet harvest corn. Draw and label what you observe.



## Lesson 6b - Student Activity Sheets - Why are the parts growing in different directions?

Name \_\_\_\_\_

Date \_\_\_\_\_

### Plant we kept in the light

<b>Notice</b> <i>Draw, Label, and Explain</i>	<b>Wonder</b> <i>Ask questions</i>	<b>Measure</b> <b>(cm)</b>
<p>I noticed...</p>	<p>I'm wondering...</p>	

## Plant we kept in the dark

<i>and Explain</i> Notice	Wonder	Measure (cm)
I noticed...	I'm wondering...	



**Student Activity Sheet 7.1: What have we noticed and what are we wondering so far?**

Date: \_\_\_\_\_

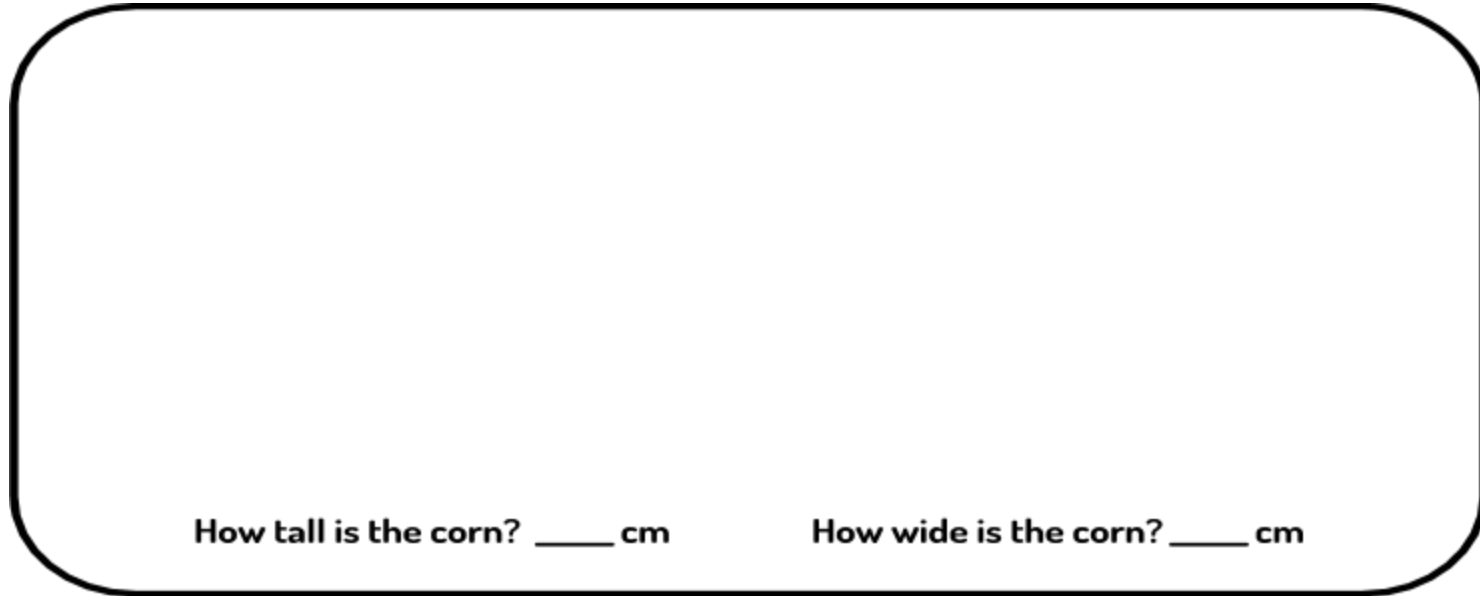
For each question, talk with your partner until you agree on an answer. Make sure to say why you think what you think.

<b>Question</b>	<b>Yes or No?</b>	<b>What did you see in the corn that makes you think that?</b>
Is the corn alive?		
Is the corn a plant?		





Name: \_\_\_\_\_ Date: \_\_\_\_\_ Number of days the corn has been growing: \_\_\_\_\_

Look carefully  at the wet harvest corn. Draw what you observe.



How tall is the corn? \_\_\_\_ cm      How wide is the corn? \_\_\_\_ cm

Write what you notice 	Write what you wonder 
<hr/> <hr/> <hr/> <hr/>	<hr/> <hr/> <hr/> <hr/>

Write the question your class decided to investigate here:

Experiment #3: **We wondered:** \_\_\_\_\_ ?

Draw the four different environments that your class decided to plant. Label your drawing.

Container 1	Container 2	Container 3	Container 4

What do you think will happen? Write a prediction and give at least one reason for your prediction in the space below.

**I predict that...** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

**My Observations of Experiment #3**

<p><b>Plant in Clean Water</b> (Sketch and write your observations below)</p> <div data-bbox="113 428 1031 854" style="border: 1px solid black; height: 262px;"></div> <p><b>Plant Height (in cm):</b> _____</p>	<p><b>Plant in Dirty Water</b> (Sketch and write your observations below)</p> <div data-bbox="1066 428 1984 854" style="border: 1px solid black; height: 262px;"></div> <p><b>Plant Height (in cm):</b> _____</p>
<p>I noticed... _____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>I noticed... _____</p> <p>_____</p> <p>_____</p> <p>_____</p>

**Plant in Soil With No Water**  
(Sketch and write your observations below)

**Plant Height (in cm):** \_\_\_\_\_

**Plant in Soil With Water**  
(Sketch and write your observations below)

**Plant Height (in cm):** \_\_\_\_\_

**I noticed...** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**I noticed...** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Name: \_\_\_\_\_ Your partner's name \_\_\_\_\_

**Step 1:** What question will you investigate? Write your question in the space below

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**Step 2:** What materials will your team need to carry out your experiment? How many of each material will you need?

<u>Name of material</u>	<u>How many?</u>
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•	
•	
•	
•	
•	
•	
•	
•	
•	

**Step 3:** Sketch and label what your experiment will look like. Next to it, sketch and label the experiment you will compare it to. 24

<b>Experiment</b> (Example: Plant in light)	<b>Comparison Experiment</b> (Example: Plant in Dark)

**Step 4:** What about the plant growth will you measure in your investigation? How will you measure it?

For our question, it makes sense to measure: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Describe **how** you will measure that change: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



<p>Notice</p>	<p><b><u>We noticed:</u></b></p> <hr/> <hr/>
<p>Wonder</p>	<p><b><u>We wondered:</u></b></p> <hr/> <hr/>
<p>Investigate</p>	<p><b><u>We decided to investigate this by:</u></b></p> <p>1. <hr/><hr/></p> <p>2. <hr/><hr/></p> <p>3. <hr/><hr/></p> <p>4. <hr/><hr/></p> <p>5. <hr/><hr/></p>
<p>Predict</p>	<p><b><u>We predict that:</u></b></p> <hr/> <hr/>



## Lesson 9b - Student Activity Sheets: How much did my plants change?

Name: \_\_\_\_\_ Your partner's name \_\_\_\_\_

What question did you and your partner decide to investigate? Write your question again in the space below

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What groups did your team decide to compare? Write a nickname for each group in the chart below.

Group 1 : \_\_\_\_\_

Group 2: \_\_\_\_\_

Extra group(s): \_\_\_\_\_

What is the date?	<u>Group 1</u> <u>Measurements</u>	<u>Group 2</u> <u>Measurements</u>	Notes/Extra Group Measurements

What is the date?	<u>Group 1 Measurements</u>	<u>Group 2 Measurements</u>	Notes/Extra Group Measurements

**Lesson 9c - Student Activity Sheets: What did our group learn from our investigation?**

Name: \_\_\_\_\_ Your partner's name \_\_\_\_\_

**Directions: Use the evidence you collected from the experiment you did with your group to complete the Scientific Explanation Outline**

1. What question was your group trying to answer?

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<b>Claim / Conclusion</b>	<p><b><u>We now know that:</u></b></p> <hr/> <hr/> <hr/>
<b>Evidence</b>	<p><b><u>We know this because:</u></b></p> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>

### Exit Questions:

What else do plants need to grow? \_\_\_\_\_

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What evidence did you collect or what did you observe that helped you answer the question?

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**Lesson 9d - Student Activity Sheets:**

**What has our class figured out from all of our experiments?**

Name: \_\_\_\_\_

Date \_\_\_\_\_

**Directions: Listen carefully to other groups as they present. Summarize three things for each group that you summarize below.**

Group Speaking:

1. What question was the group trying to answer?

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2. What was the answer to their question?

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3. How did the evidence that this group collected help them answer their question?

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Group Speaking:

1. What question was the group trying to answer?

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2. What was the answer to their question?

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3. How did the evidence that this group collected help them answer their question?

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Group Speaking:

1. What question was the group trying to answer?

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2. What was the answer to their question?

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3. How did the evidence that this group collected help them answer their question?

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Group Speaking:

1. What question was the group trying to answer?

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2. What was the answer to their question?

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3. How did the evidence that this group collected help them answer their question?

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Group Speaking:

1. What question was the group trying to answer?

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2. What was the answer to their question?

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3. How did the evidence that this group collected help them answer their question?

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Group Speaking:

1. What question was the group trying to answer?

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2. What was the answer to their question?

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3. How did the evidence that this group collected help them answer their question?

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Group Speaking:

1. What question was the group trying to answer?

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2. What was the answer to their question?

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3. How did the evidence that this group collected help them answer their question?

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Group Speaking:

1. What question was the group trying to answer?

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2. What was the answer to their question?

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3. How did the evidence that this group collected help them answer their question?

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Group Speaking:

1. What question was the group trying to answer?

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2. What was the answer to their question?

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3. How did the evidence that this group collected help them answer their question?

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