

Botany

Dear Teachers and Fellow Homeschoolers,

I hope you find these Botany Notebook Pages beneficial to your child's study of Exploring Creation with Botany.

These are lined pages that correspond with the notebook activities in Exploring Creation with Botany. In them, your child can write their narrations and thoughts, draw their illustrations, create their diagrams and label plant parts.

On pages 37 - 49, additional blank notebook pages are available for extra work, or extra space your child may need to write and draw. I encourage you to print these and use for field trips, videos you may watch or extra books you choose to read during your study. Making a notebook page will serve to reinforce the information your child learned, and create a long lasting record of their education. Different patterns of drawing boxes and lines were created from which you can choose, depending on how much drawing and how much writing is necessary.

On page 50, you will find a Scientific Speculation Sheet that you can print, with which to do the experiments. Pages 51—60 are primary pages with a dashed line between the lines, for early writers.

Enjoy!

Plants are divided into different groups based on how they produce seeds, and whether or not they have tubes inside. Angiosperms grow seeds inside containers, which we call fruit. Gymnosperms grow seeds that are not covered up, usually inside pinecones.

Angiosperm

Gymnosperm

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Seedless vascular plants produce spores instead of seeds. They do have inside veins or tubes. Nonvascular plants do not have tubes or veins, and also do not produce seeds. They are both called sporangia.

Seedless Vascular Plant

Nonvascular Plant

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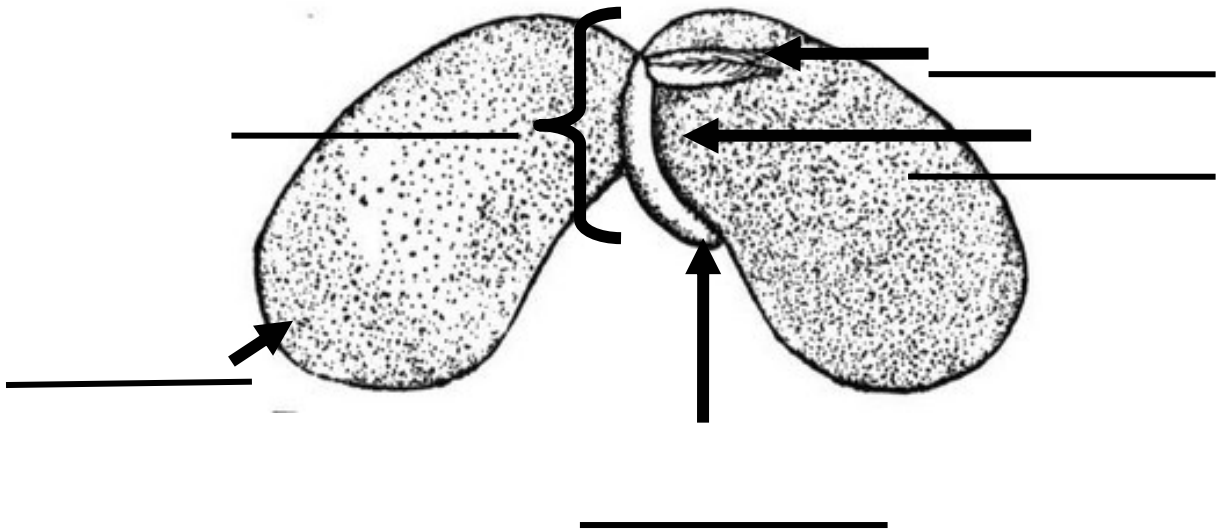
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# Label this Seed

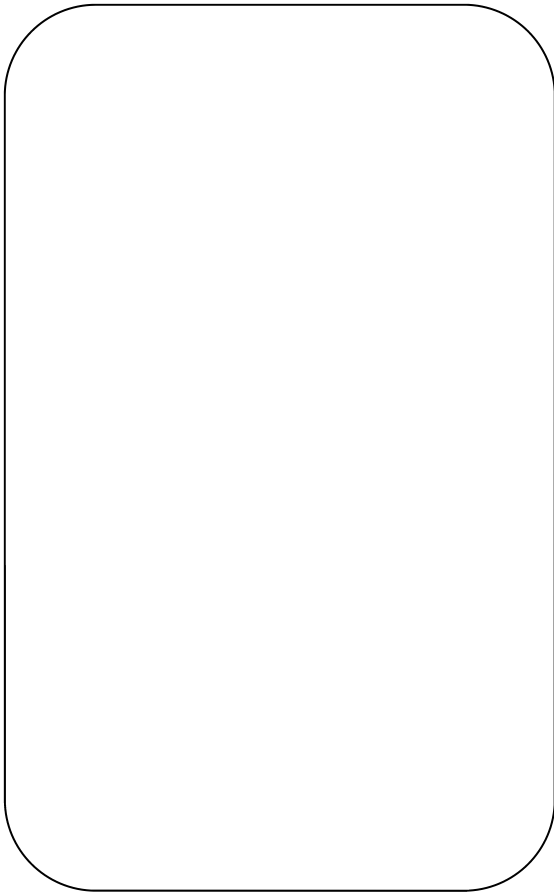


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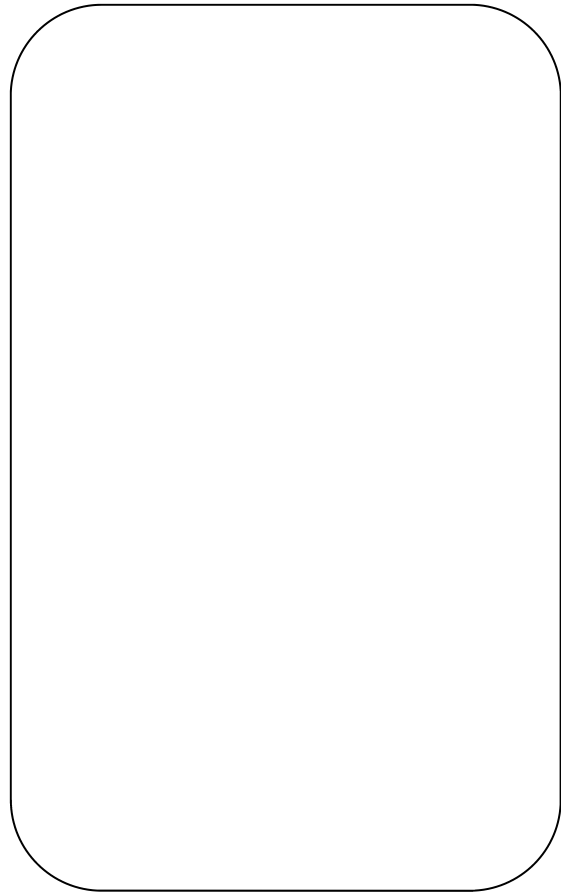
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My Seed Coat (Testa)



Monocot



Dicot

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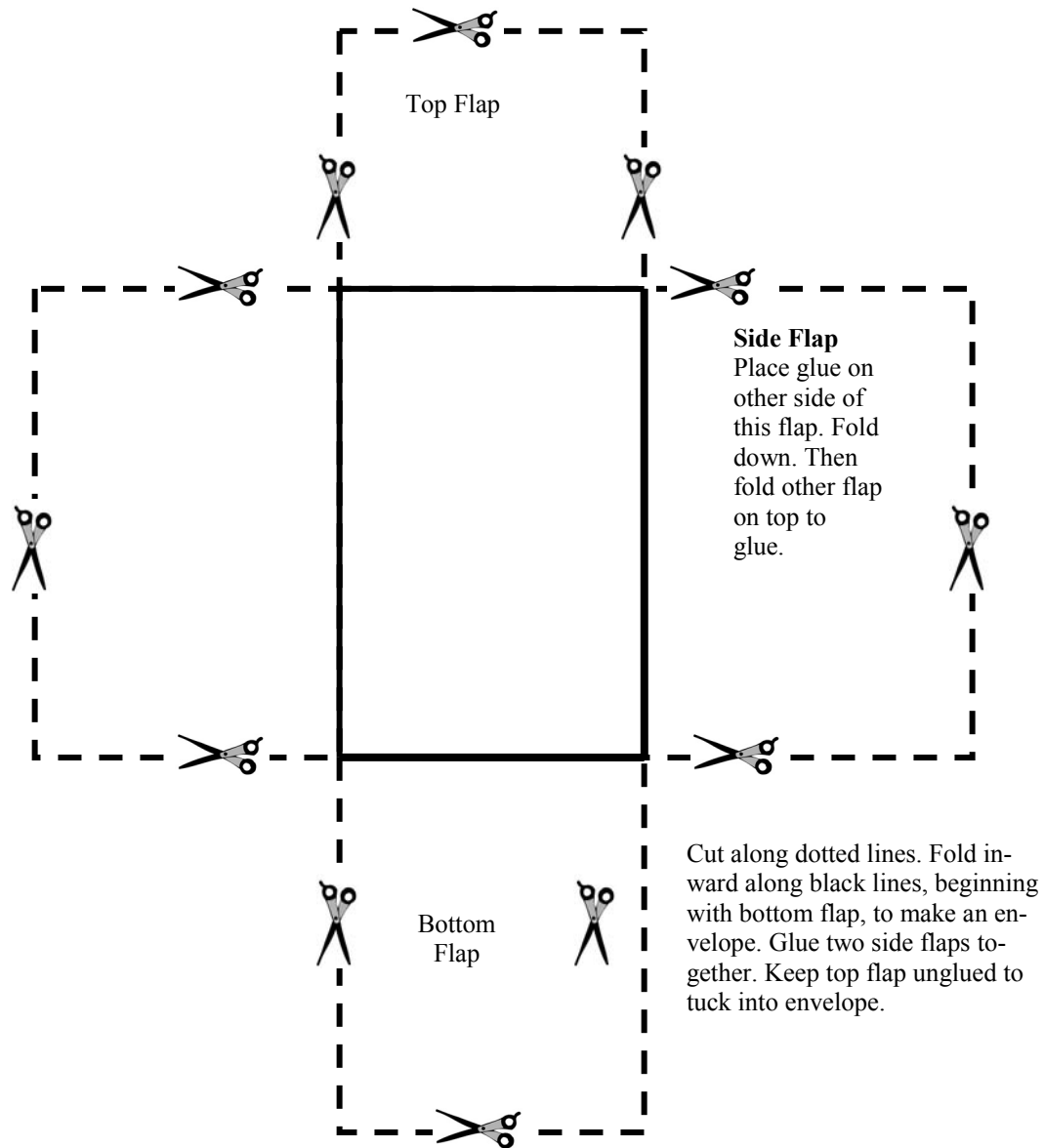
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# Seed Envelope Pattern



# FLOWERS

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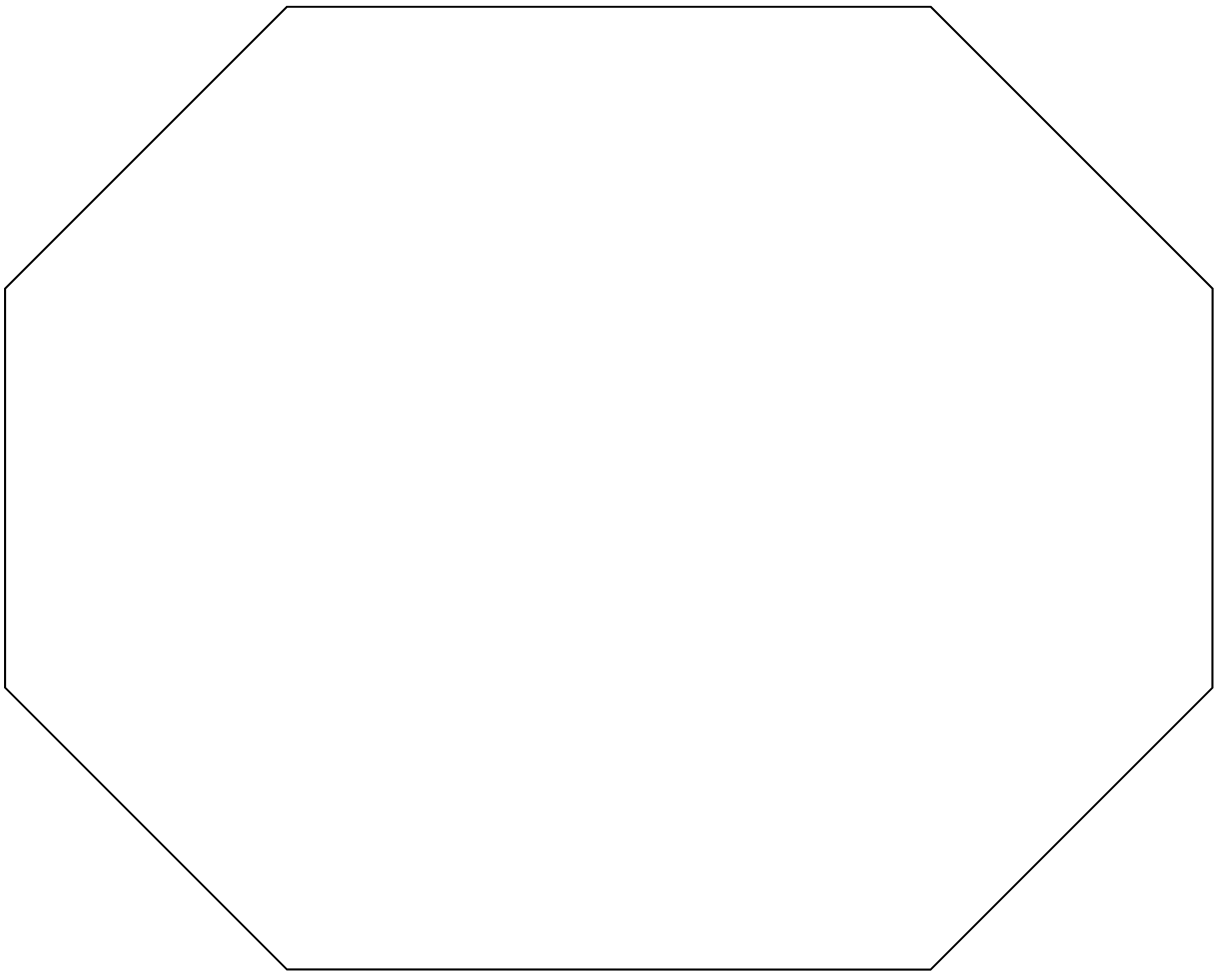
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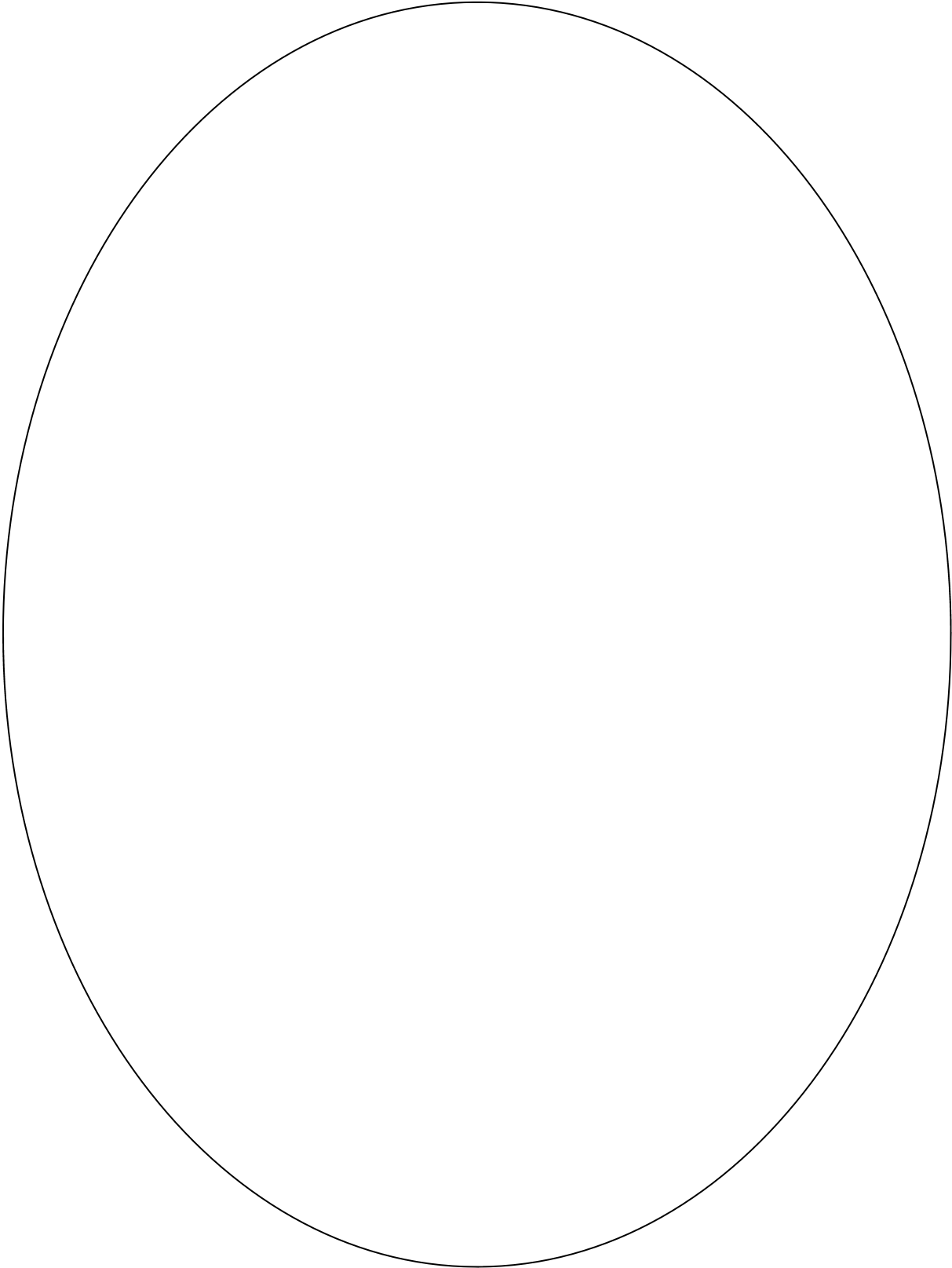
## LABELING A FLOWER



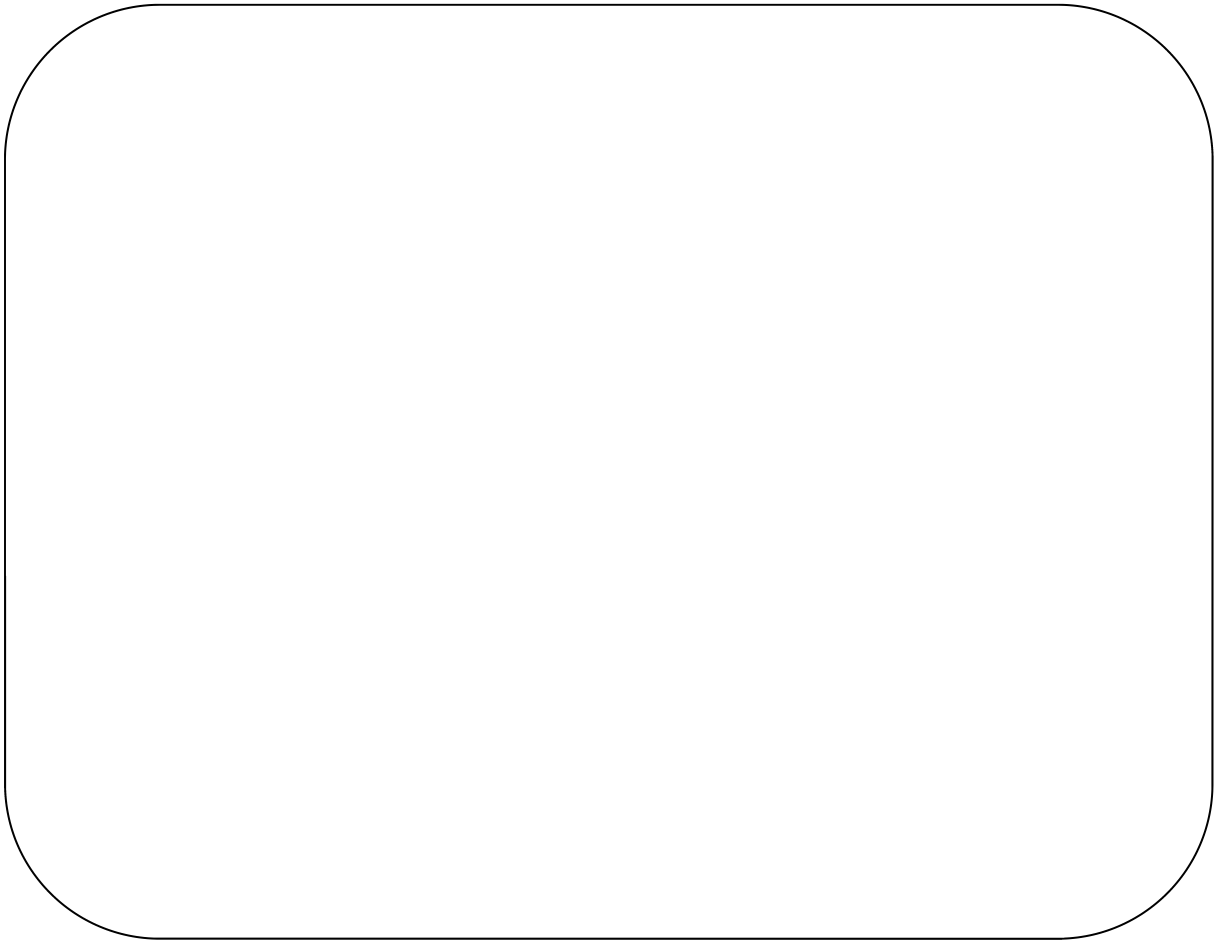
Flower Parts: Petal, sepal, Carpel: stigma, style, ovary, ovule; stamen: anther, filament



**FLOWER CREATION**



# Pollinators



## Bees

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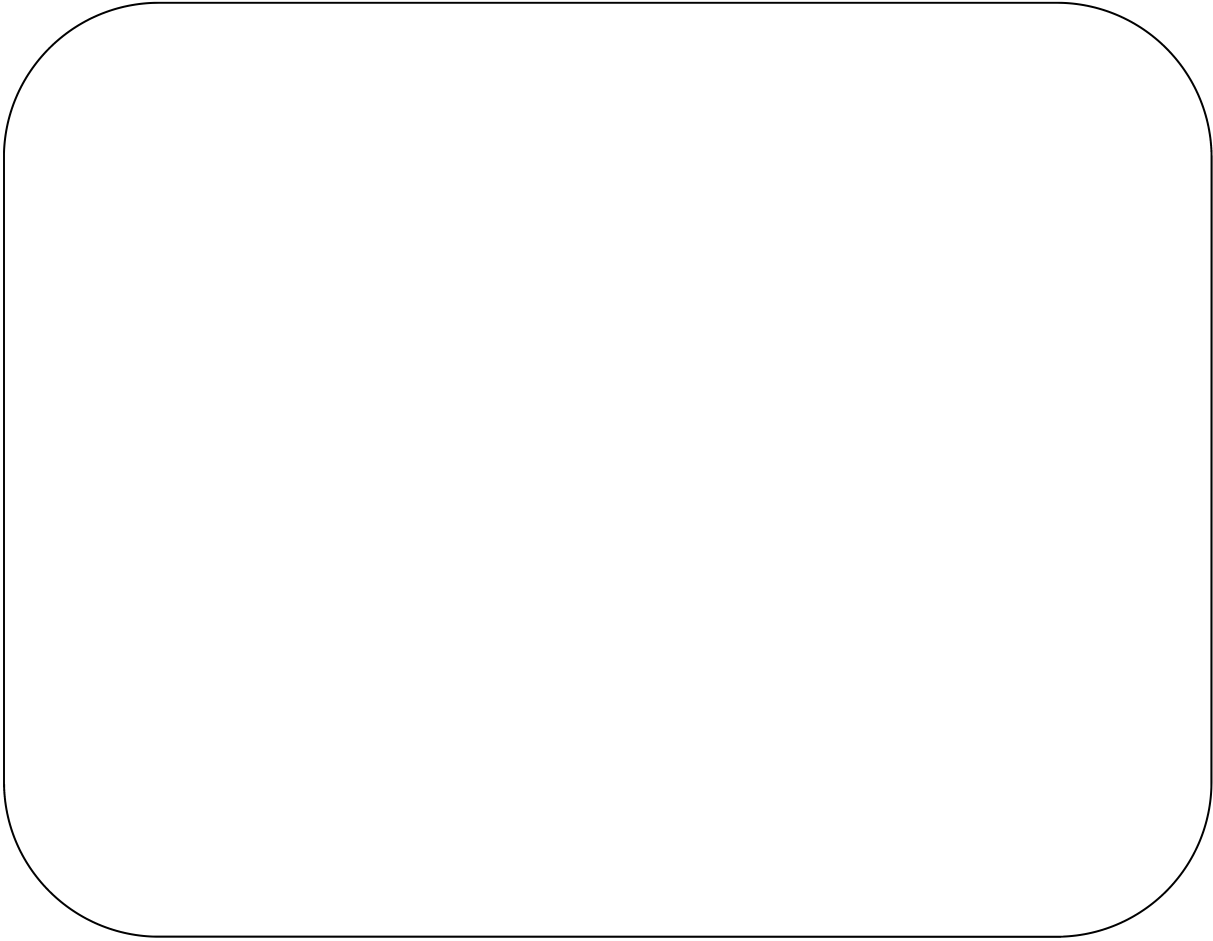
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# Pollinators



# Butterflies

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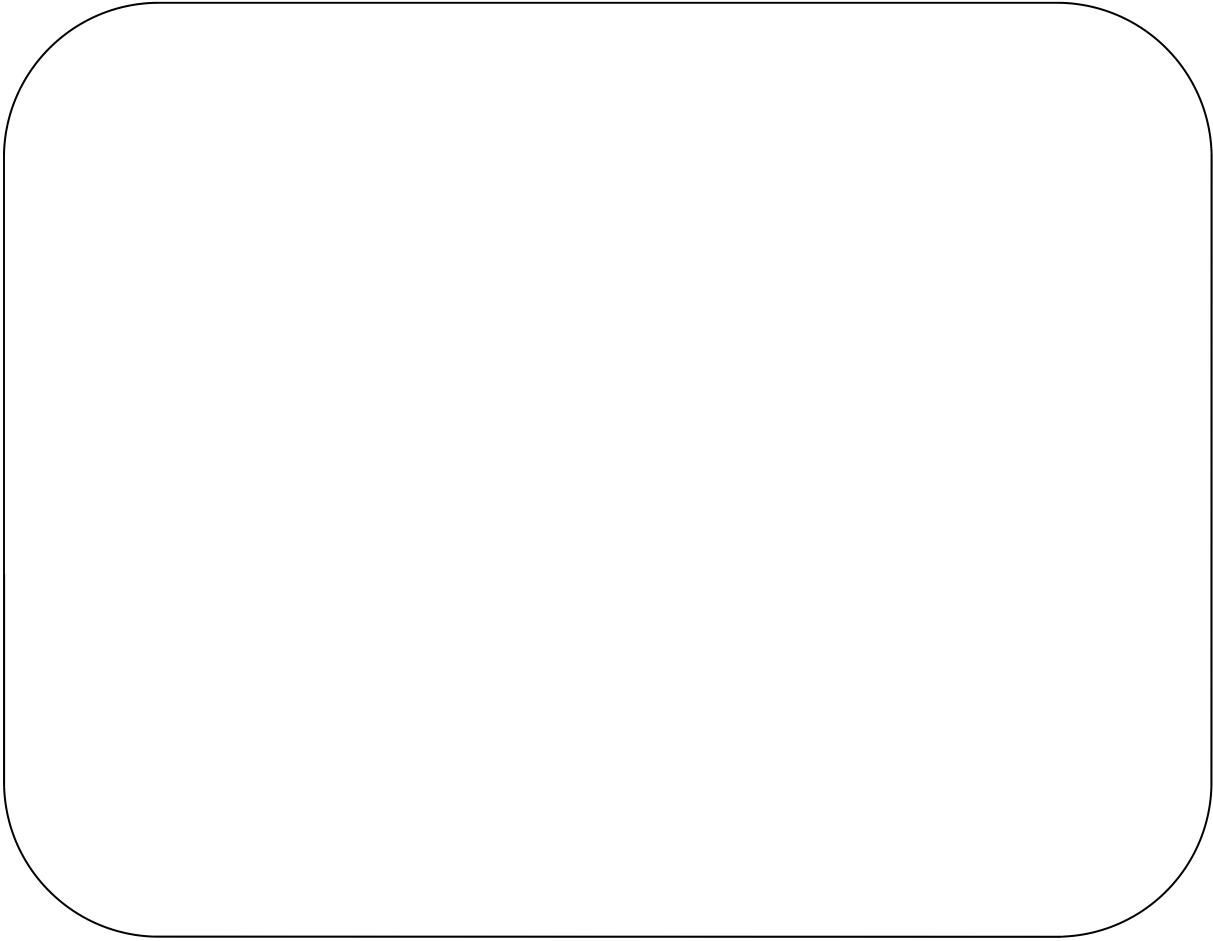
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# Pollinators



# Moths

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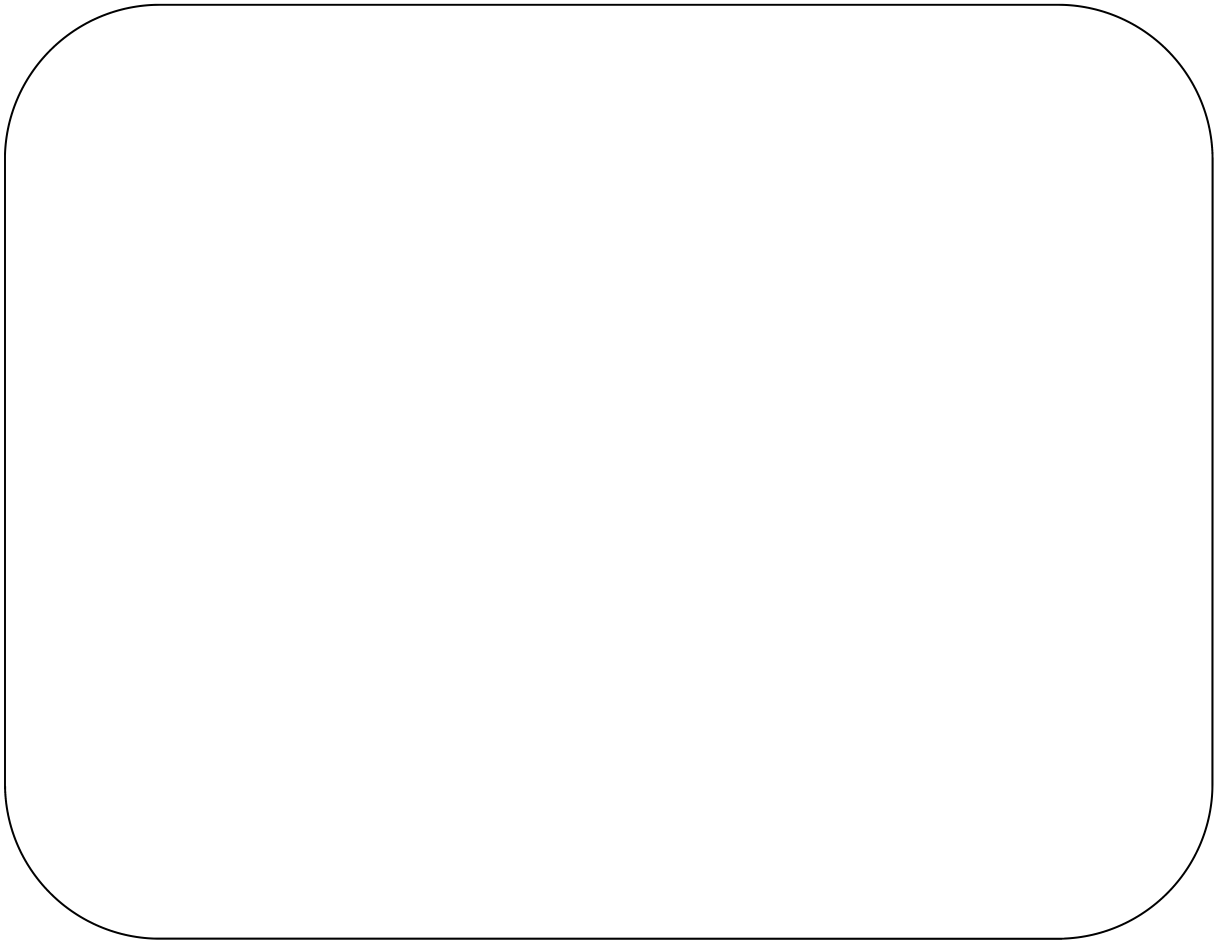
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# Pollinators



# Hummingbirds

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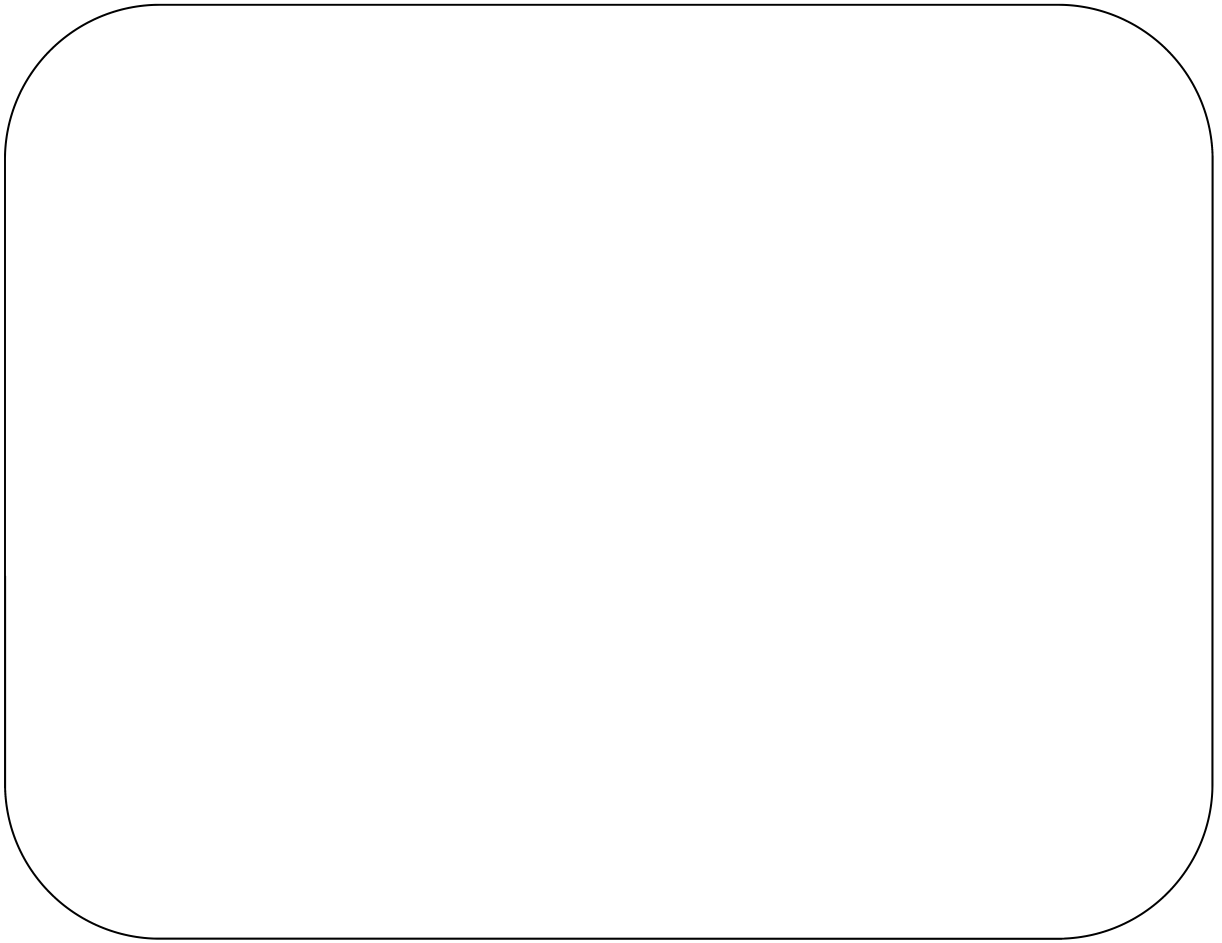
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# Pollinators



# Bats

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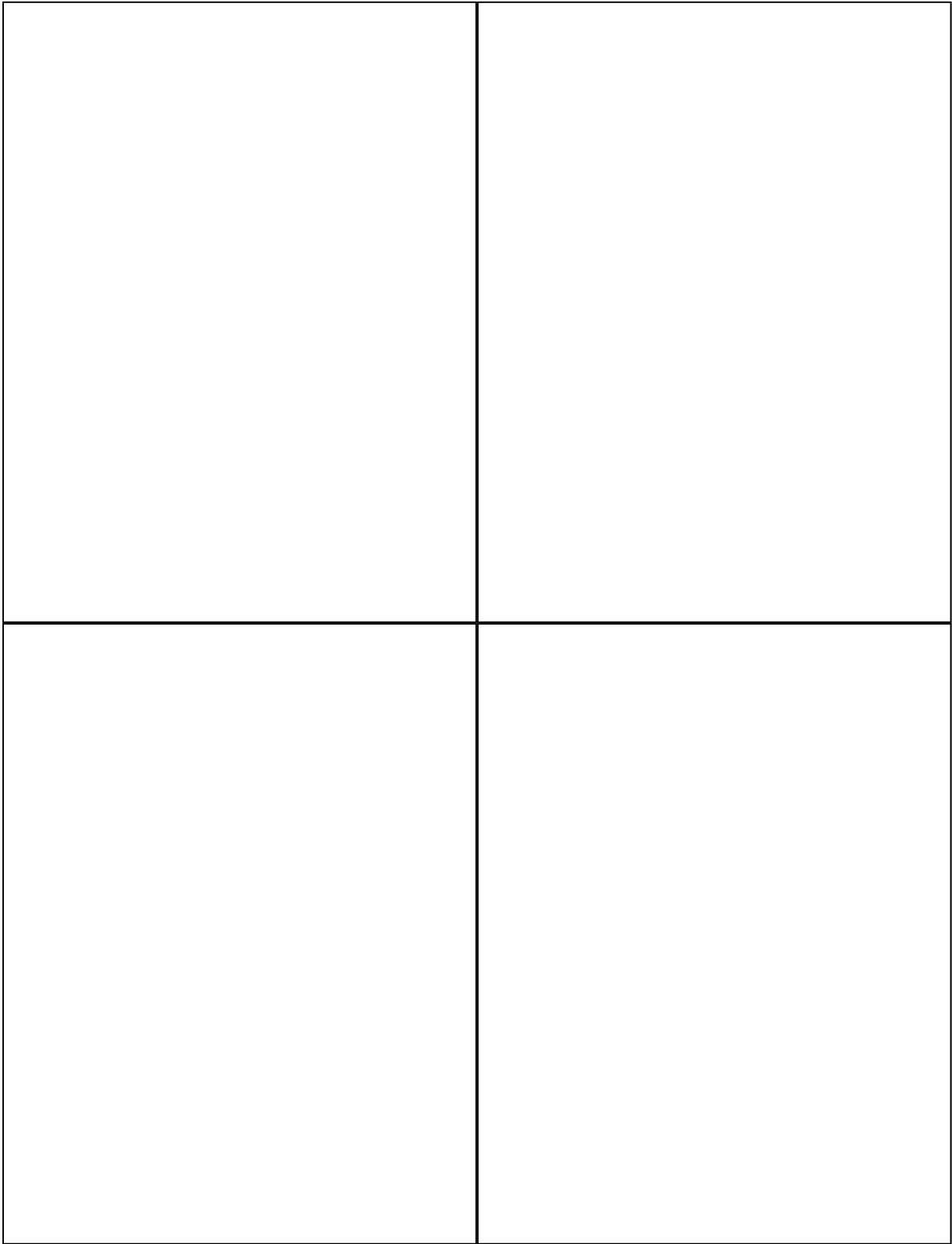
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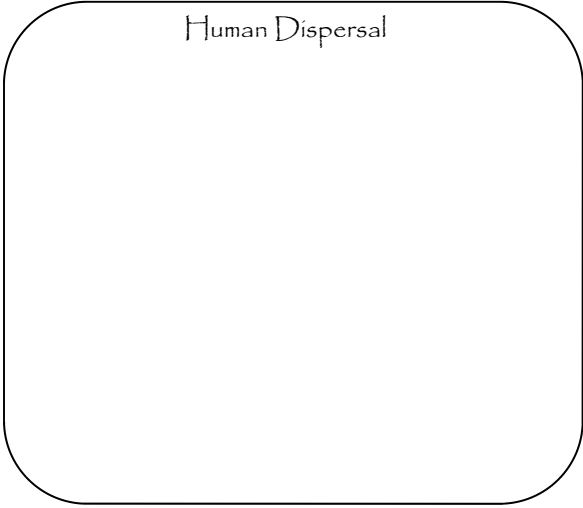






# Seed Dispersal

Human Dispersal



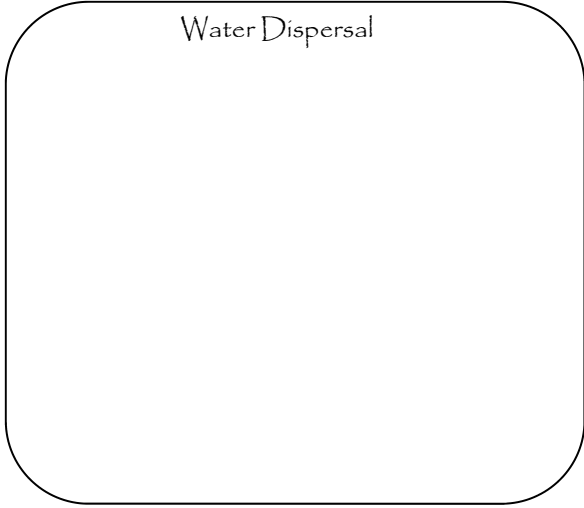
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Water Dispersal



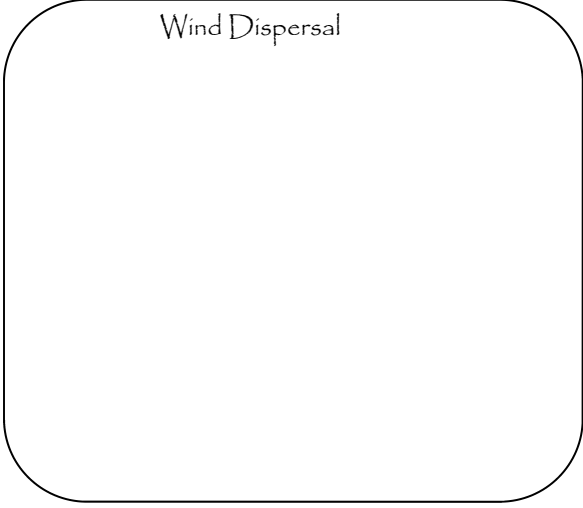
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Wind Dispersal



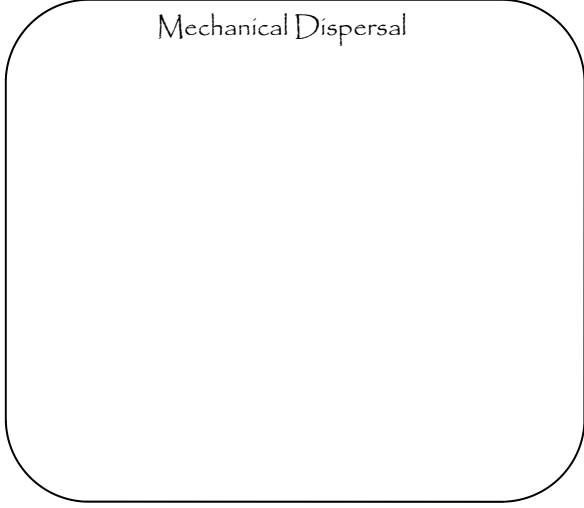
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Mechanical Dispersal



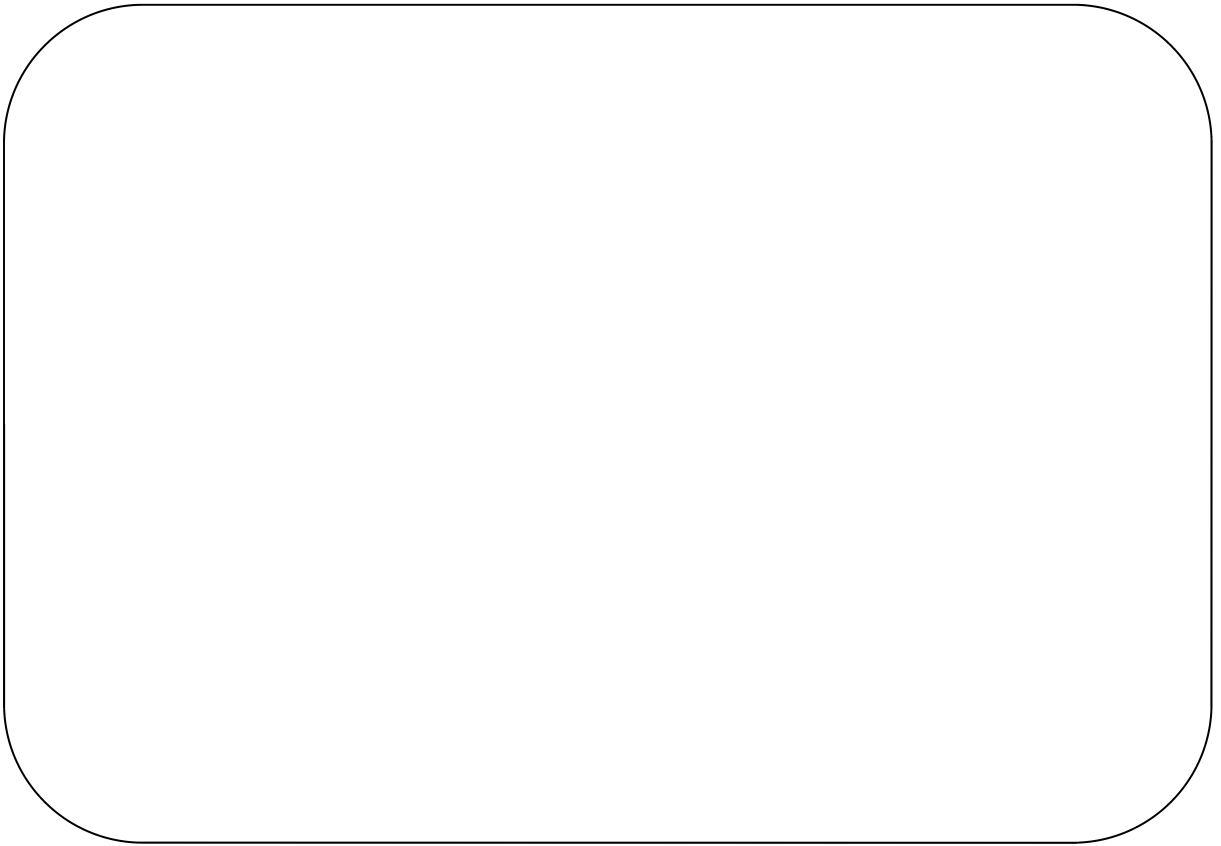
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# Animal Dispersal

A large, empty rounded rectangular box with a thin black border, intended for a drawing or detailed notes related to the topic of animal dispersal.

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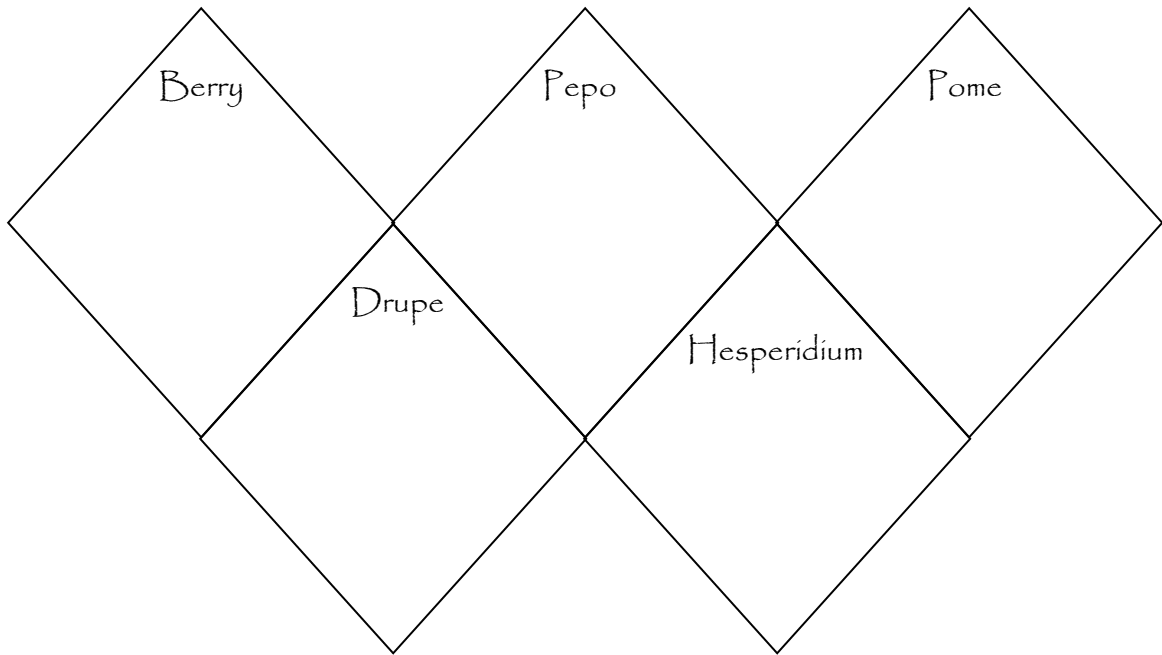
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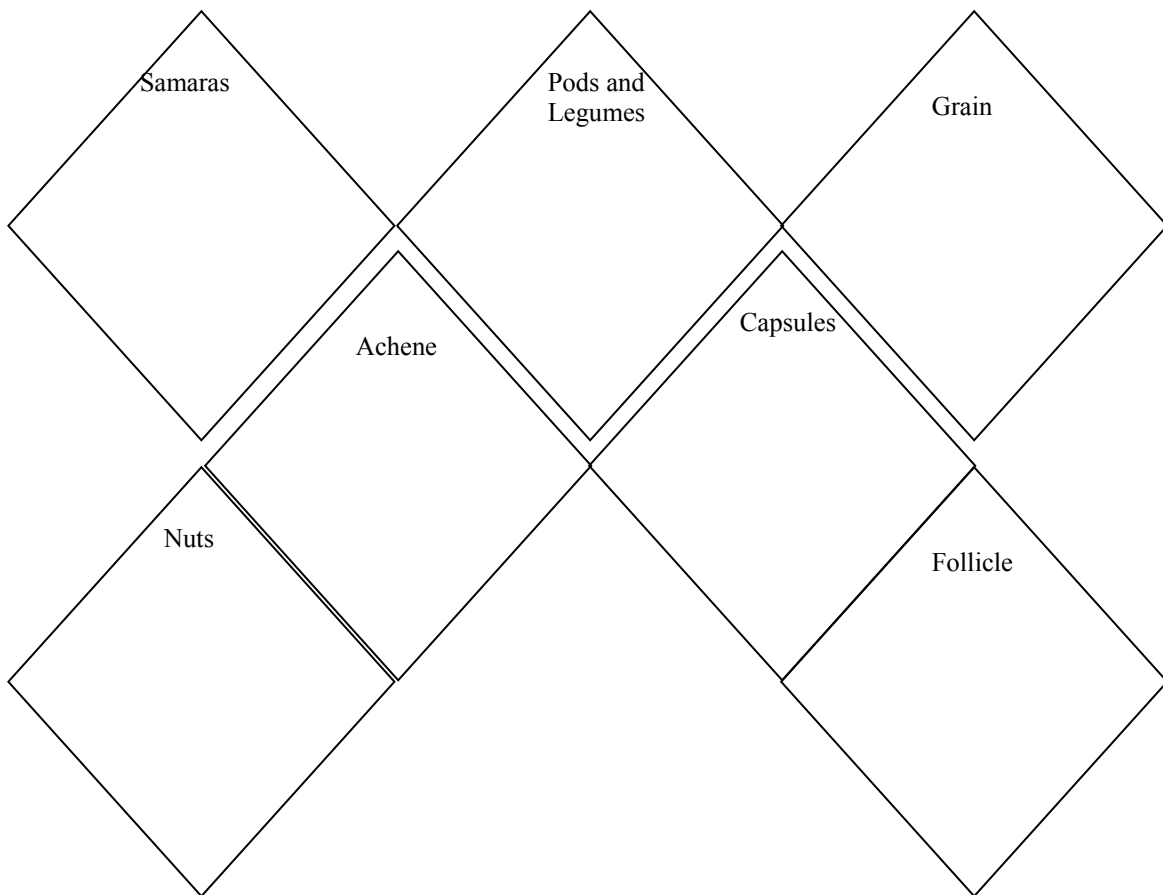
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# Fleshy Fruits



# Dry Fruits



# Leaf Anatomy



Parts of a Leaf: apex, margin, midrib, lamina, petiole

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Tap Root

Fibrous Root

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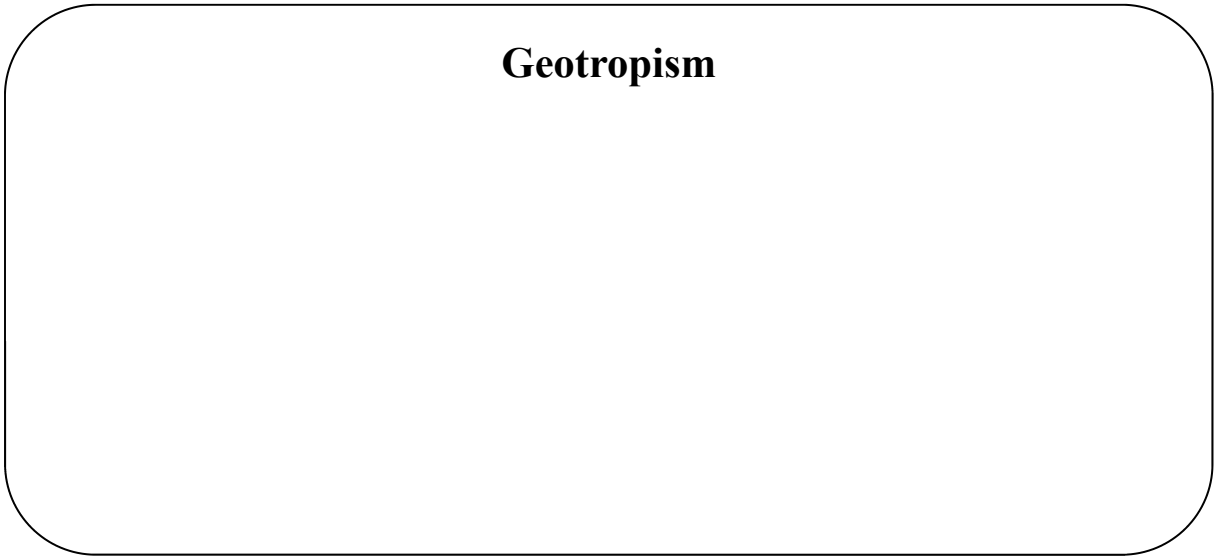
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# Roots

## Geotropism

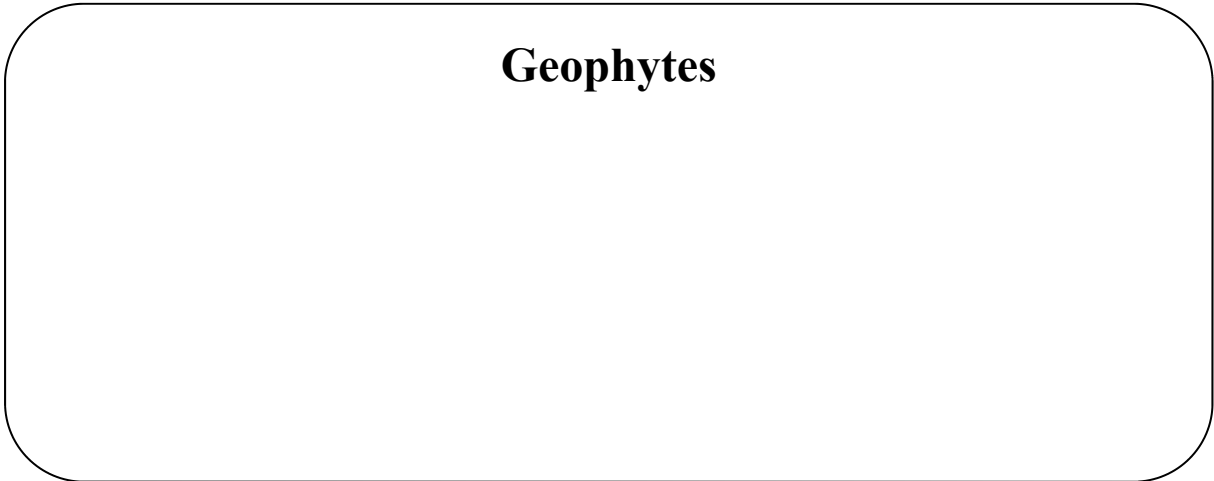


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## Geophytes



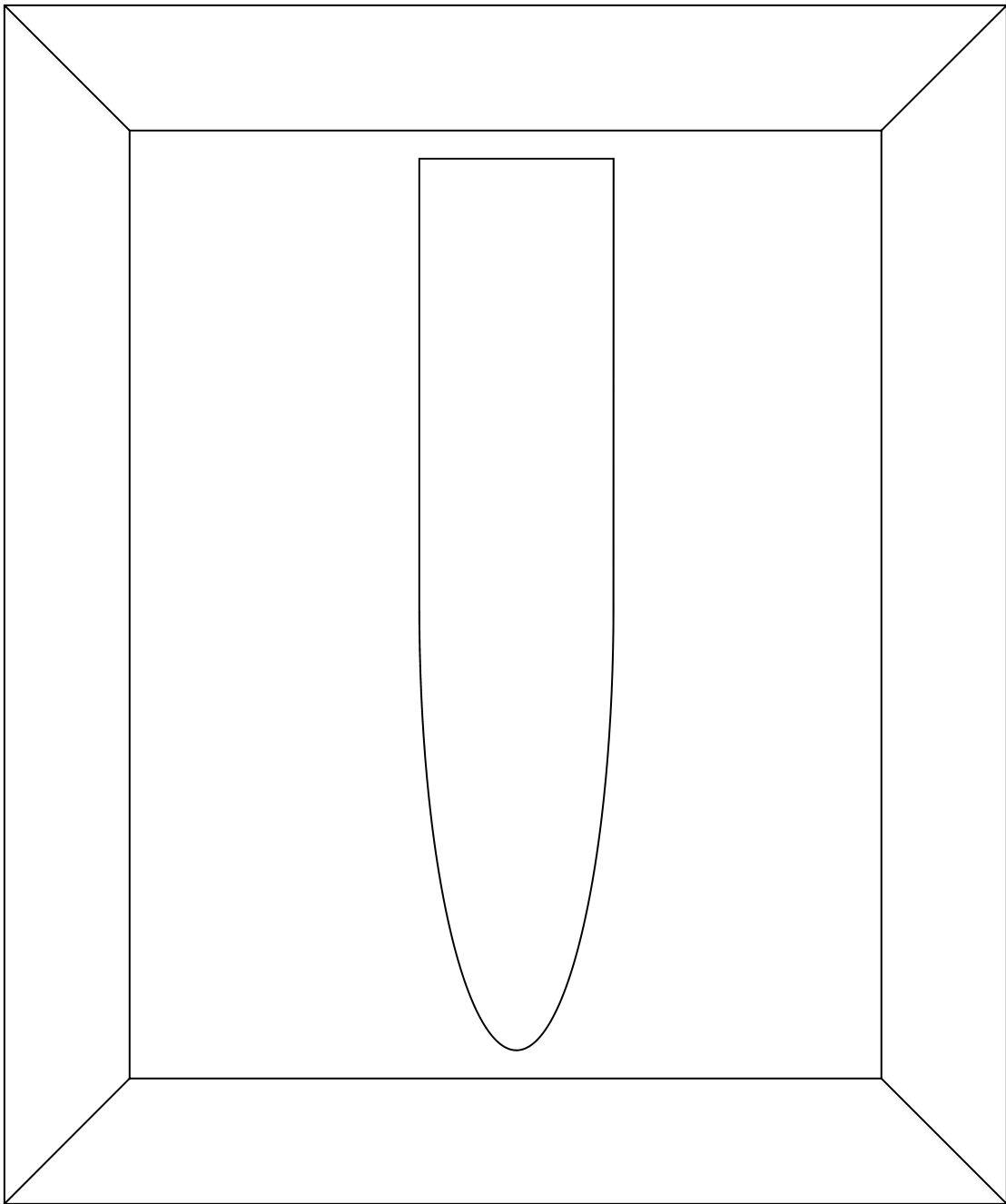
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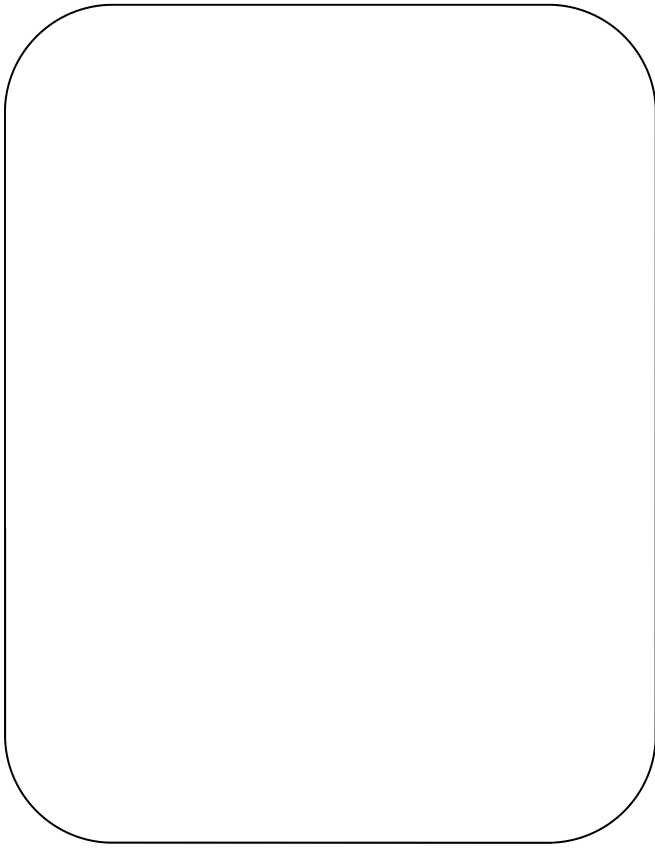
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# Root Tip



Root Tip: root hairs, root cells, root cap

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Blank rounded rectangular box for a title or header.

Large rounded rectangular box for a drawing or illustration.

Eight horizontal lines for notes or descriptions.

Eight horizontal lines for additional notes or a conclusion.

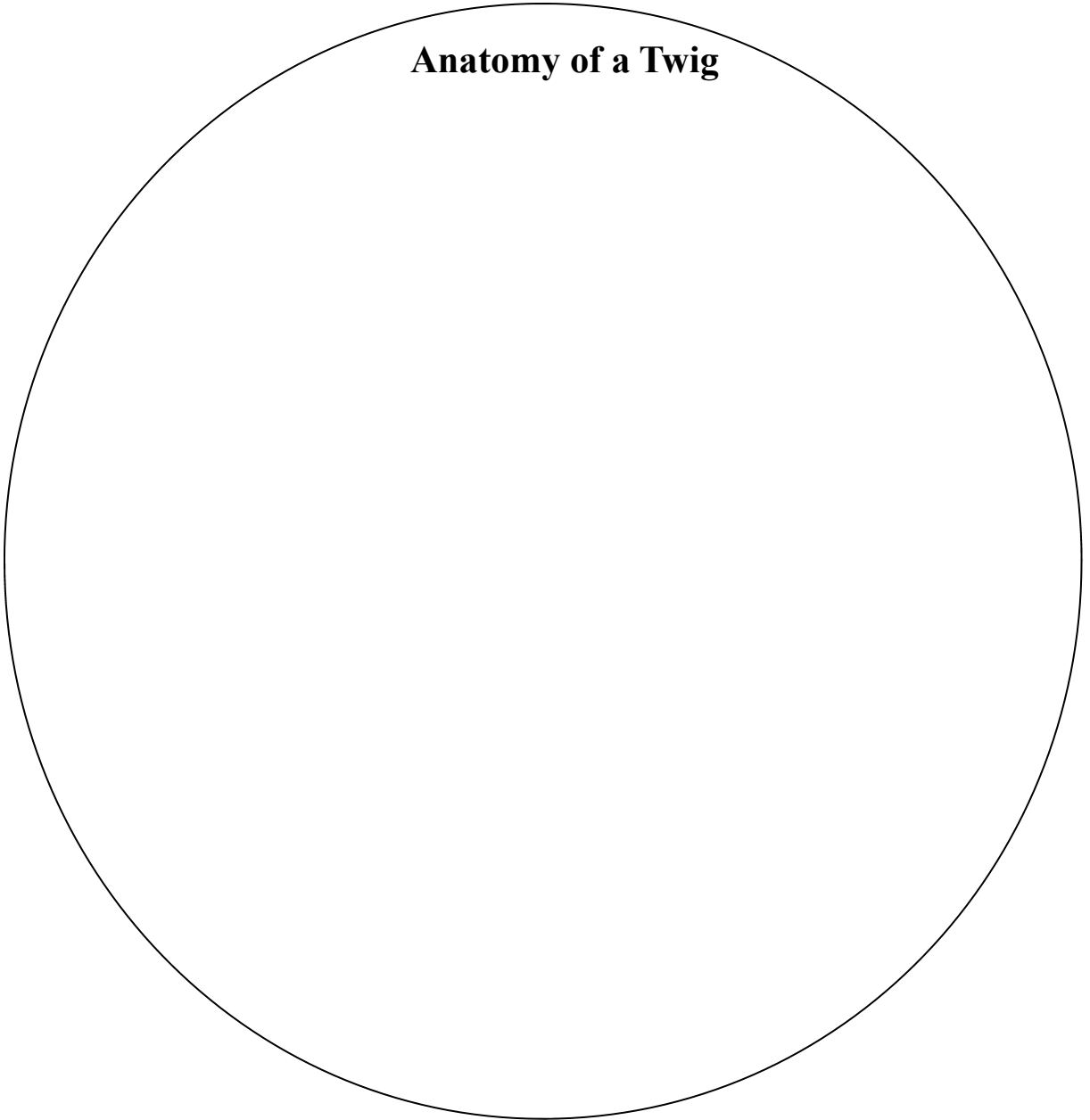
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## Anatomy of a Twig



Twig Parts: terminal bud, auxiliary bud, lenticels, internodes, node, leaf scar, terminal bud scar

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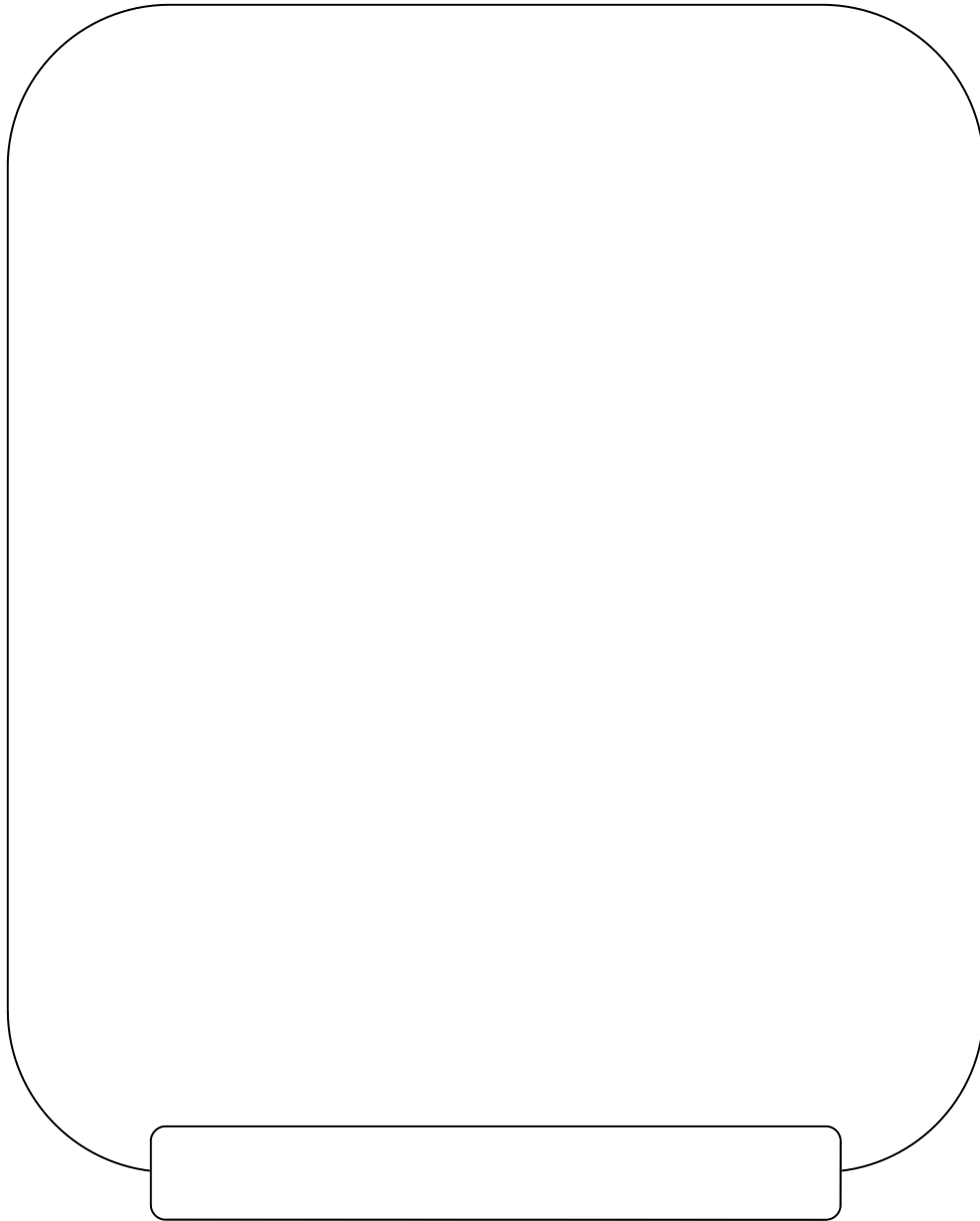
Empty rounded rectangular box for a title or label.

Five horizontal lines for writing notes.

**Tree Layers**

Large rounded rectangular box for drawing or writing.

# Trees in My Yard

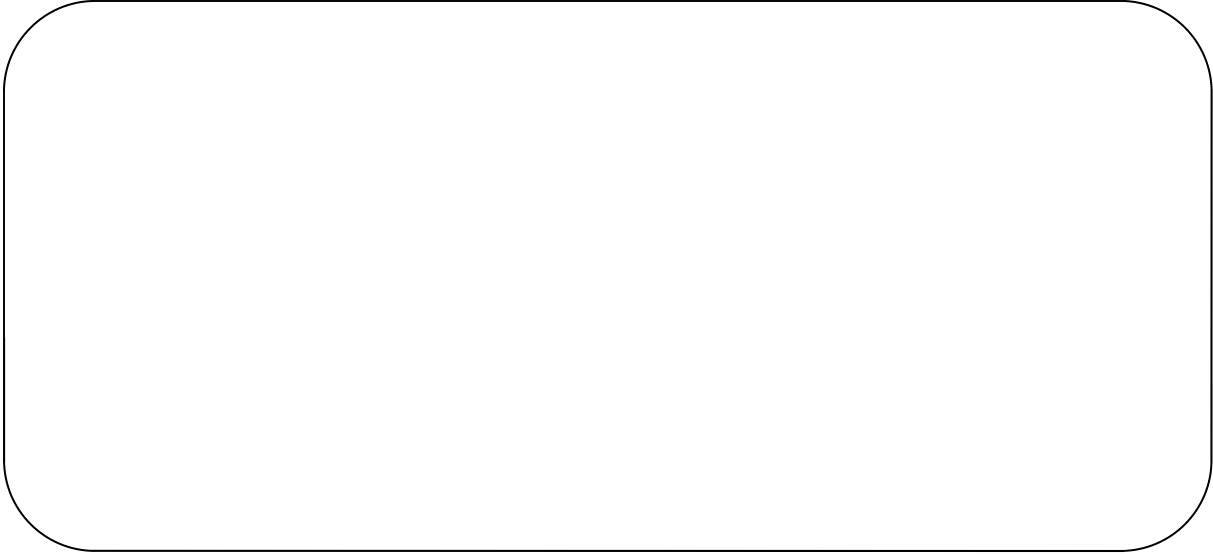


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Bristlecone Pines and Creation

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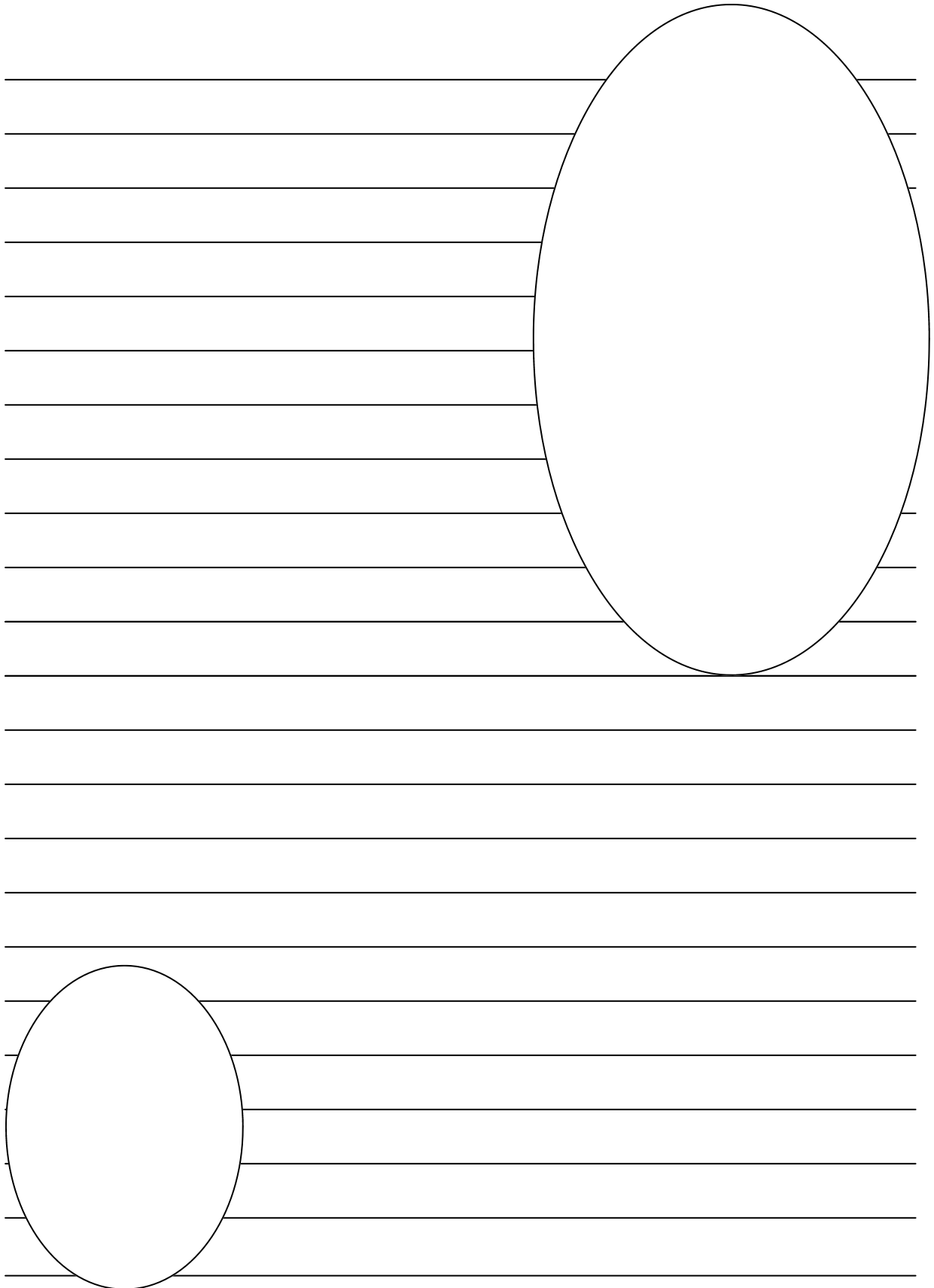
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# Lifecycle of a Fern

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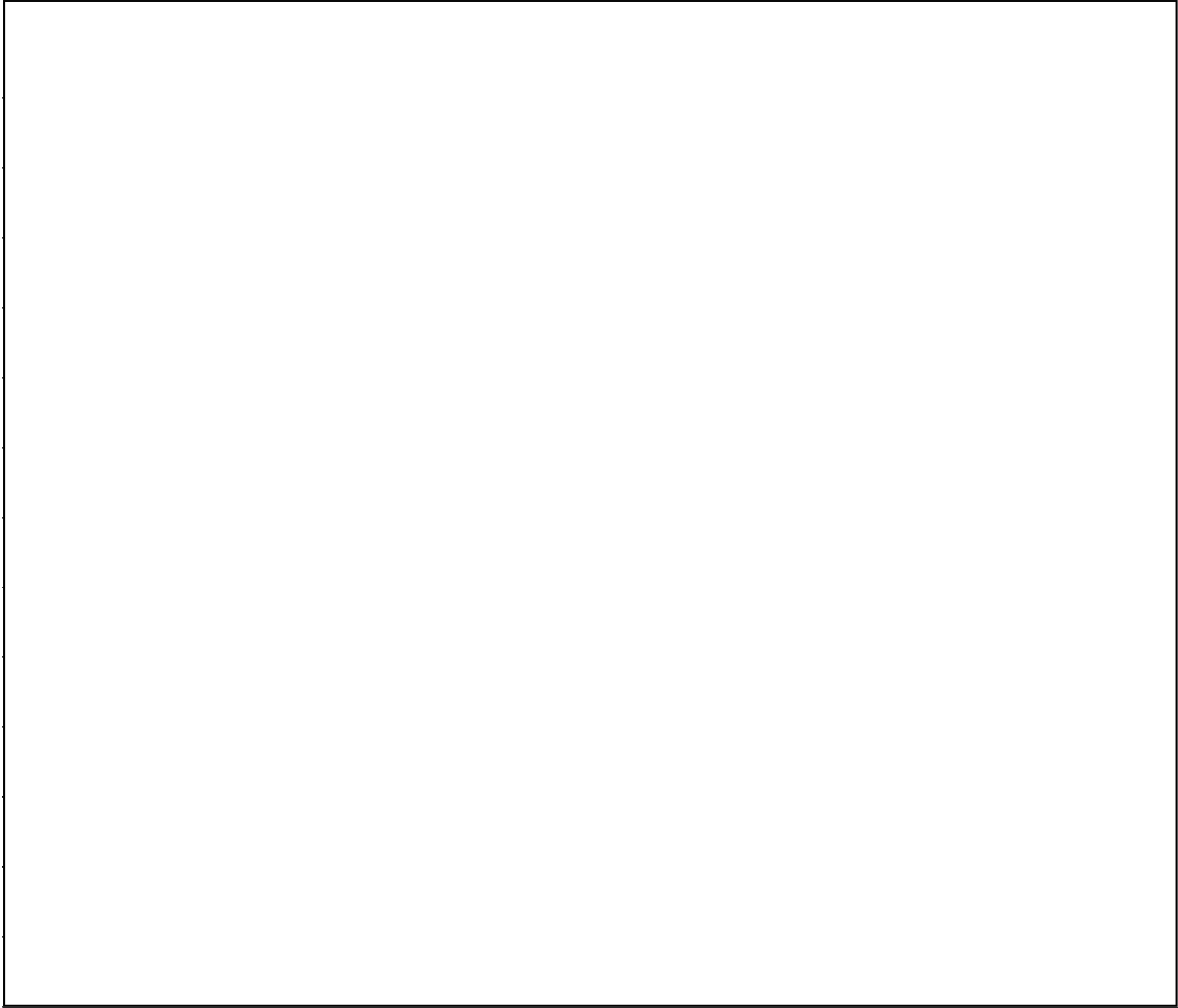
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# *FERNS I FOUND*



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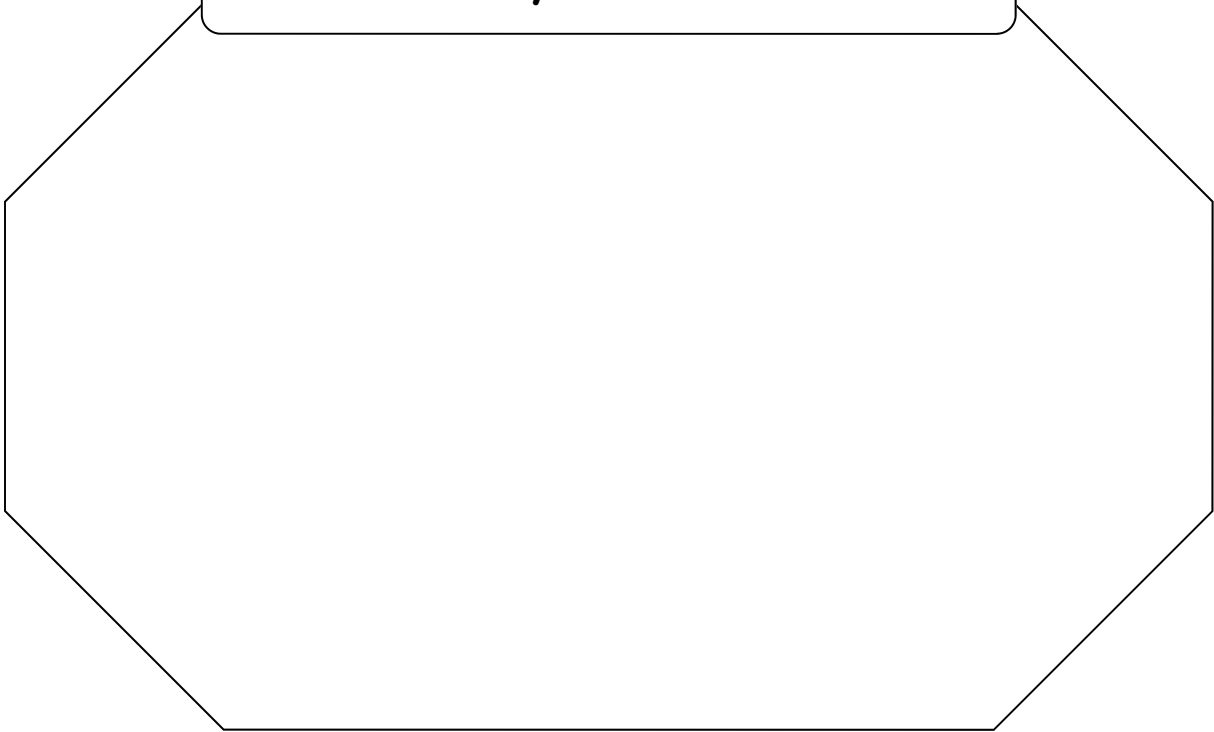
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**Lifecycle of Moss**



**Lifecycle Explained**

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**MOSS**

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**LICHEN**

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**LIVERWORTS**

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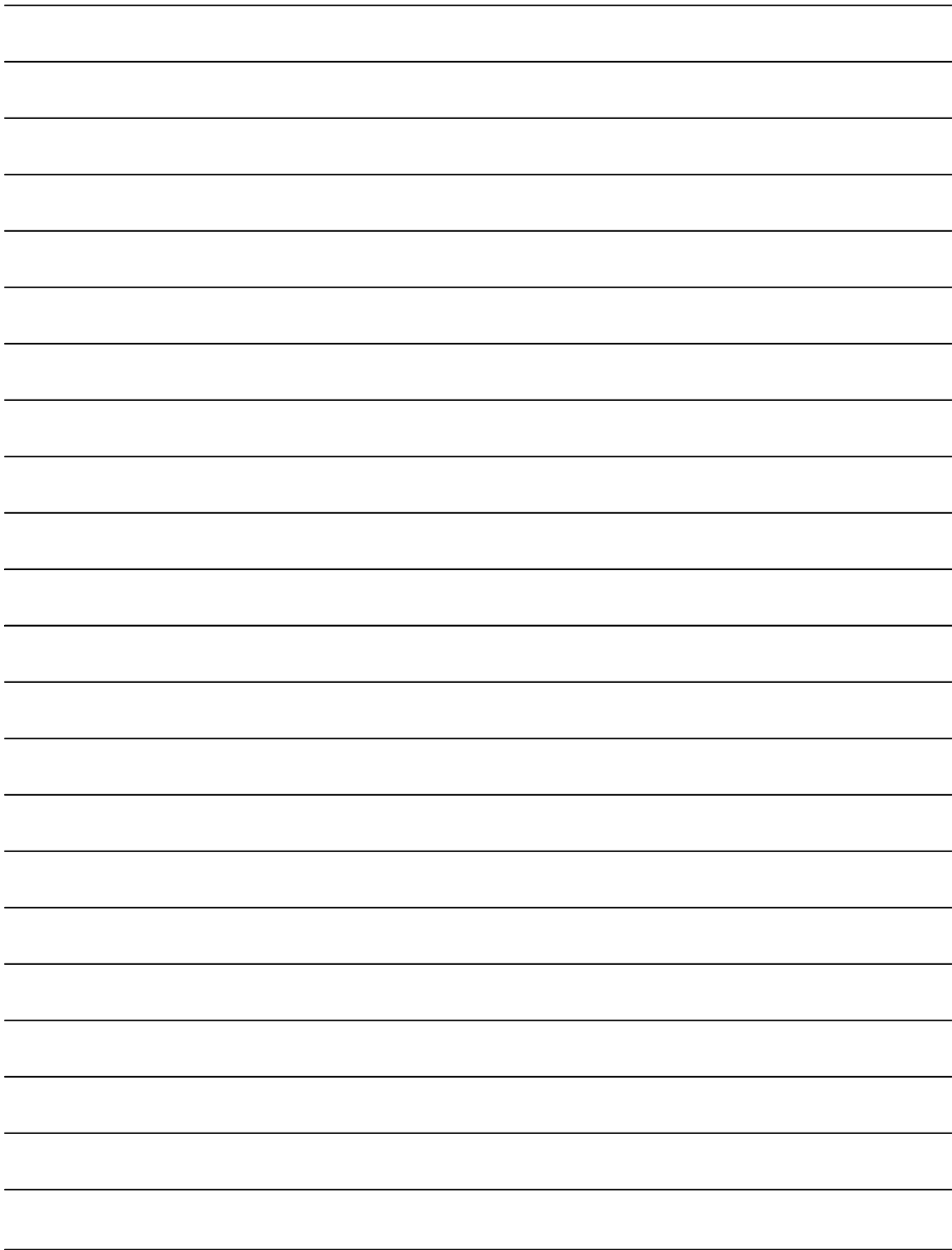
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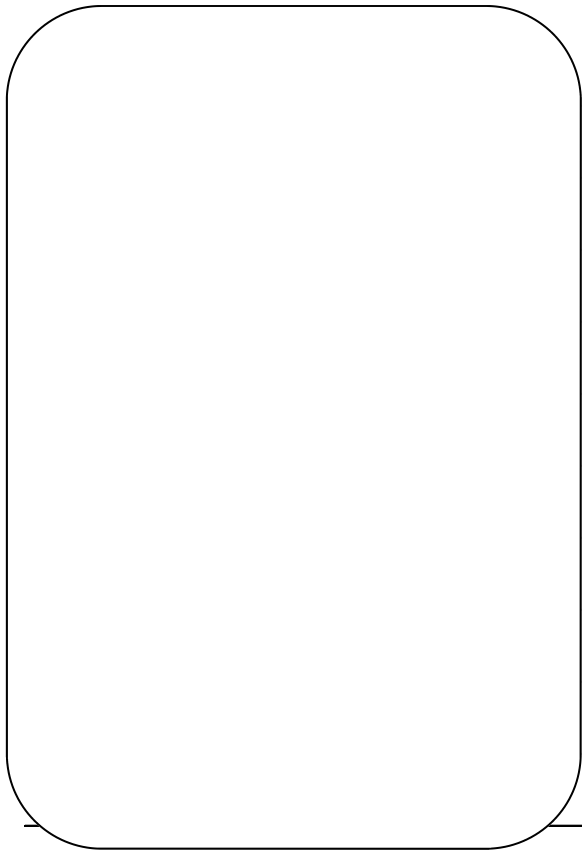




A large rounded rectangular box on the left side of the page, with seven horizontal lines extending to the right from its right edge.

A series of ten horizontal lines spanning the width of the page.

A large rounded rectangular box on the right side of the page, with seven horizontal lines extending to the left from its left edge.



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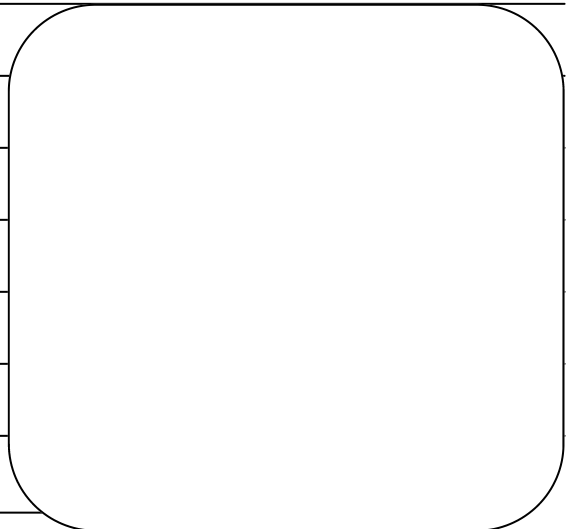
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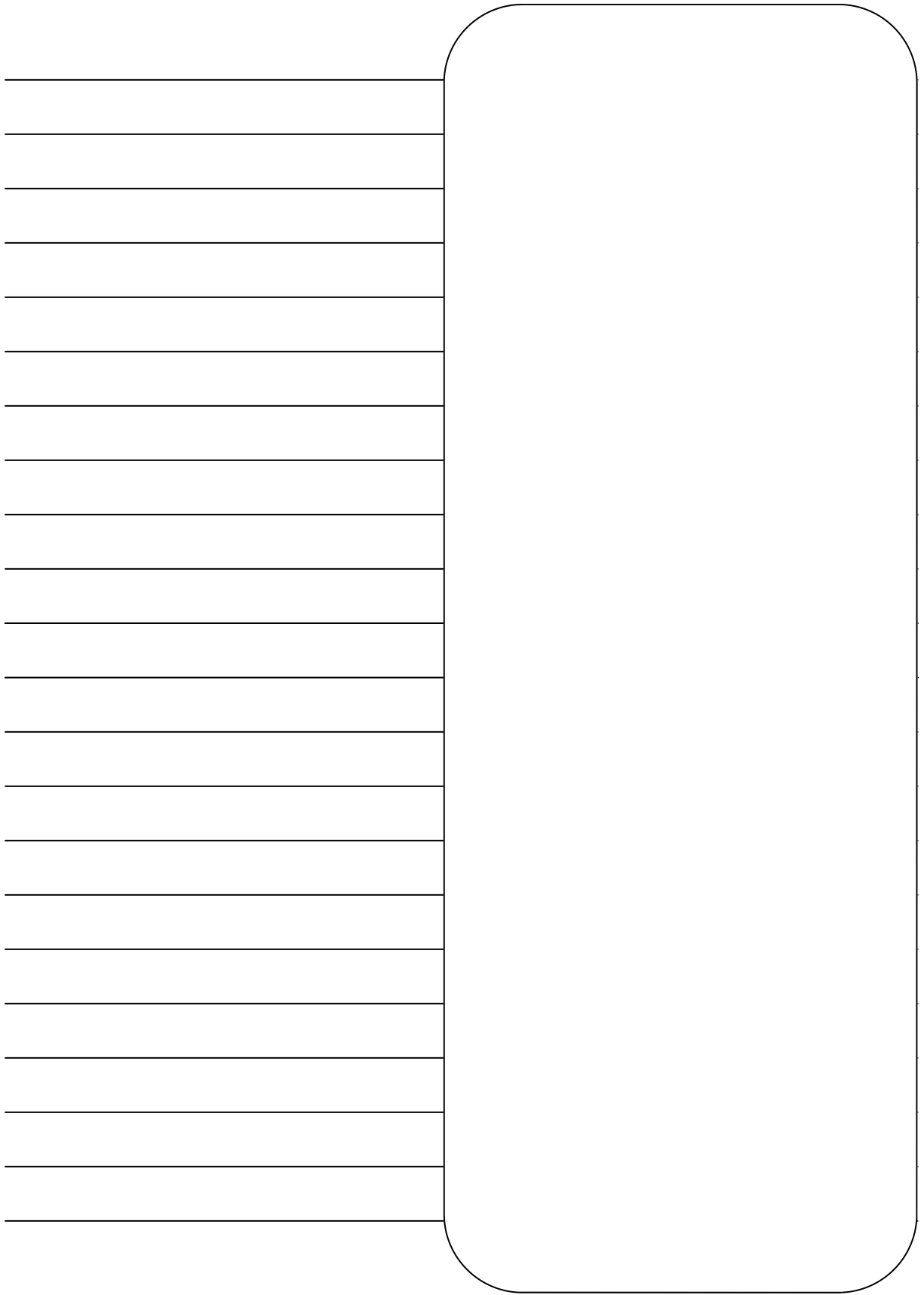
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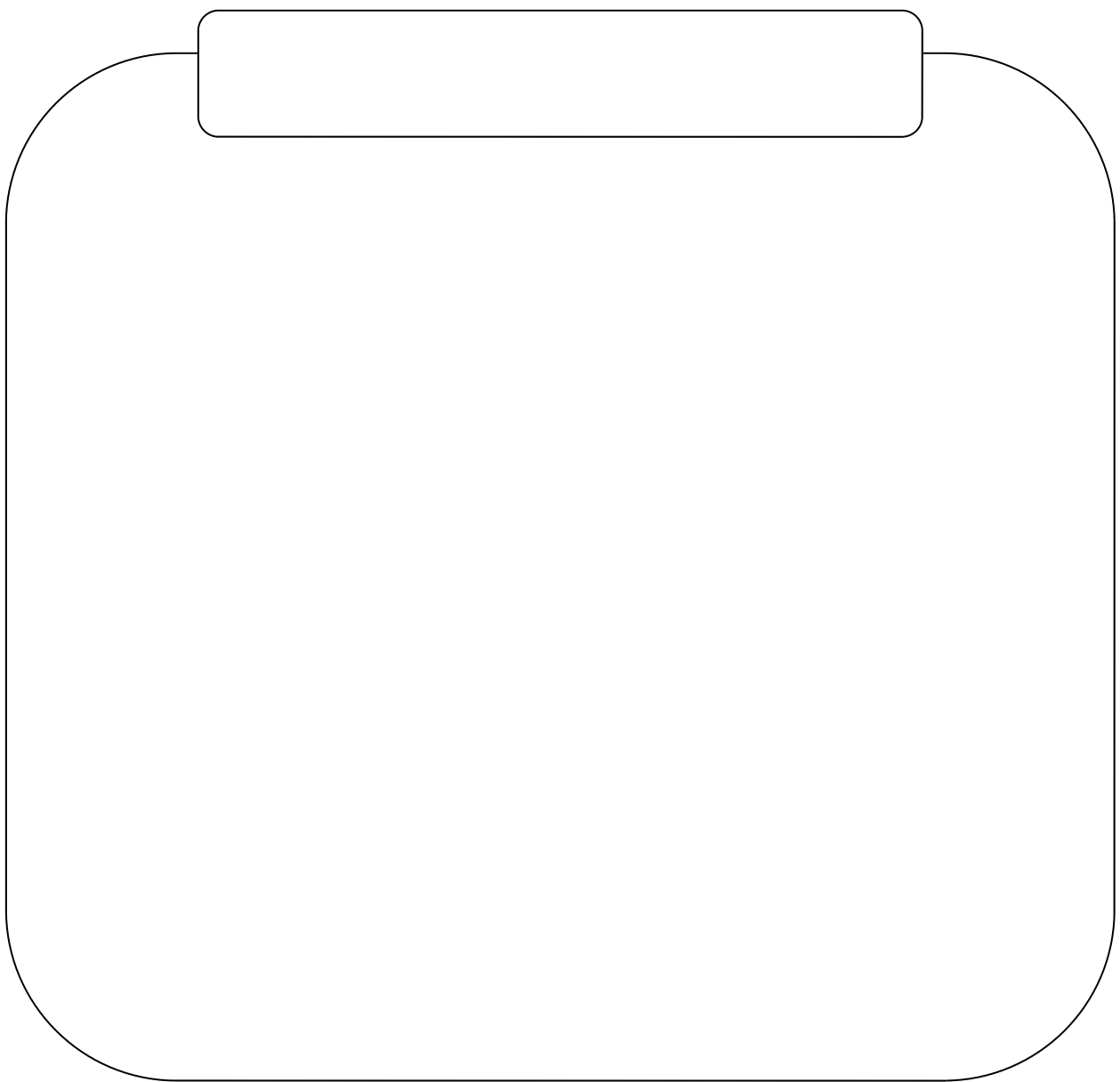
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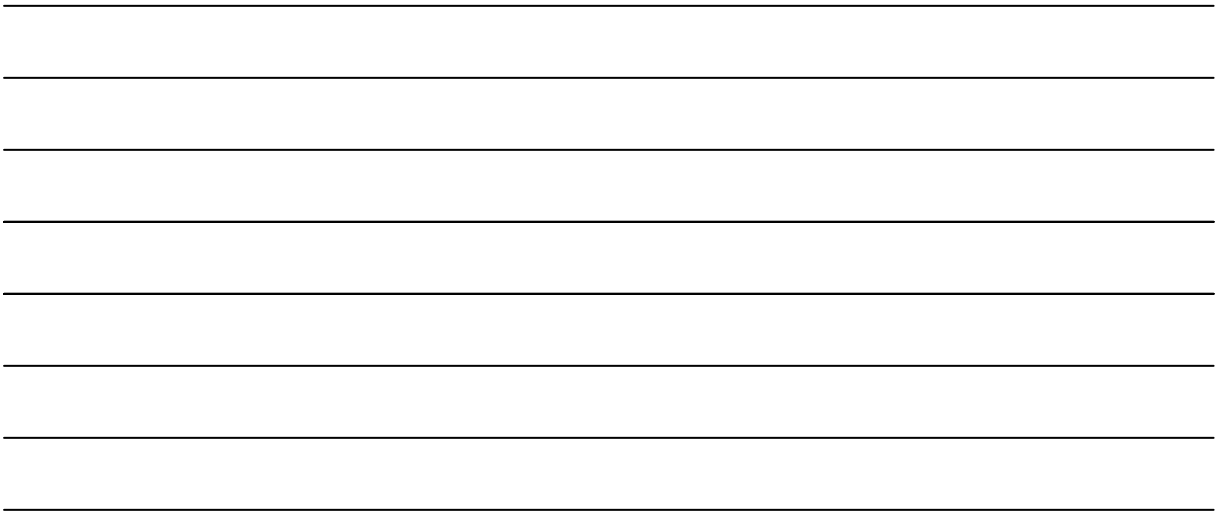
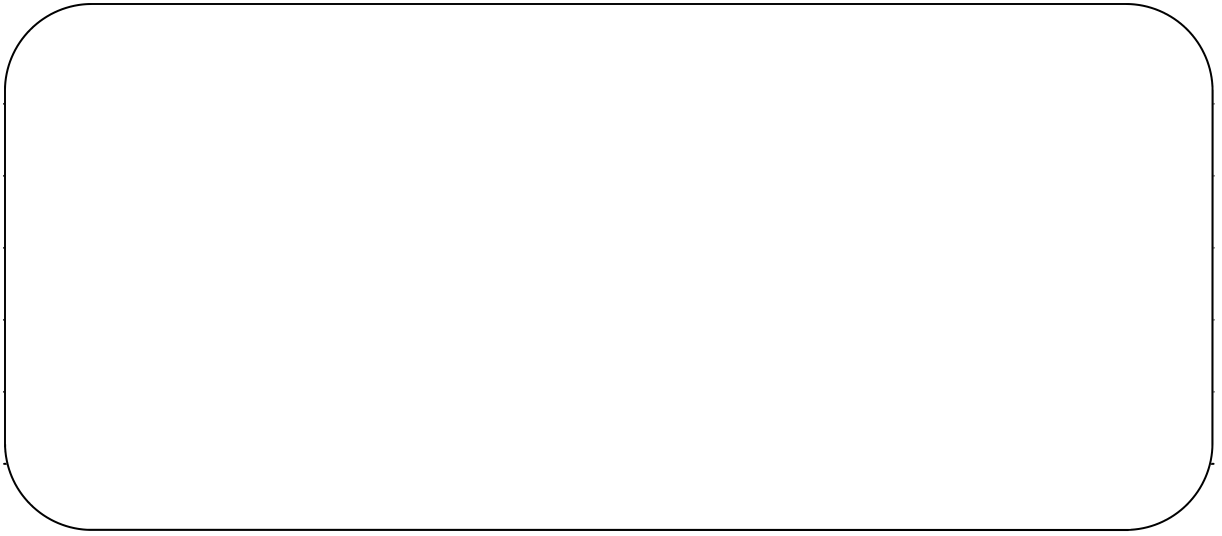
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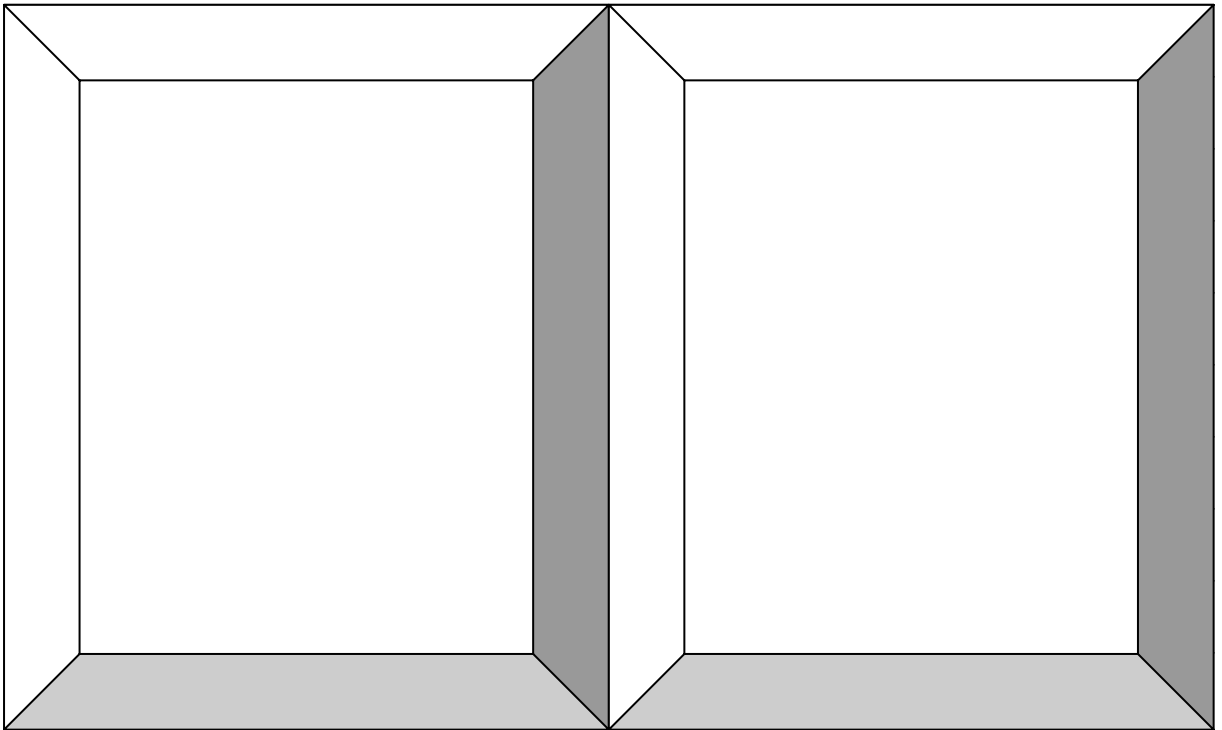
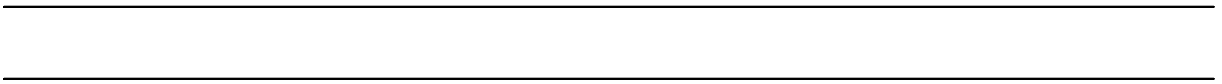
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A horizontal rounded rectangular box with a thin black border, positioned at the top of the page.A series of 12 horizontal lines, evenly spaced, spanning the width of the page. These lines are intended for writing notes or descriptions.A large, vertically oriented rounded rectangular box with a thin black border, located in the lower-left section of the page. It is intended for drawing a botanical specimen.A second large, vertically oriented rounded rectangular box with a thin black border, located in the lower-right section of the page. It is intended for drawing another botanical specimen.





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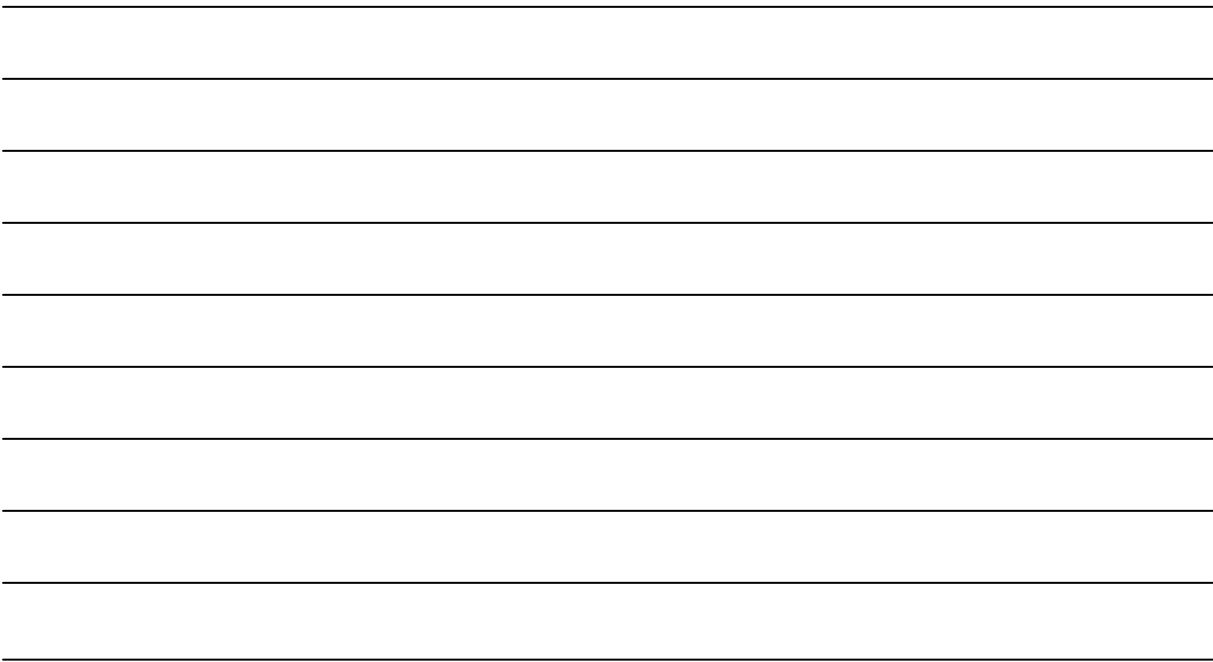
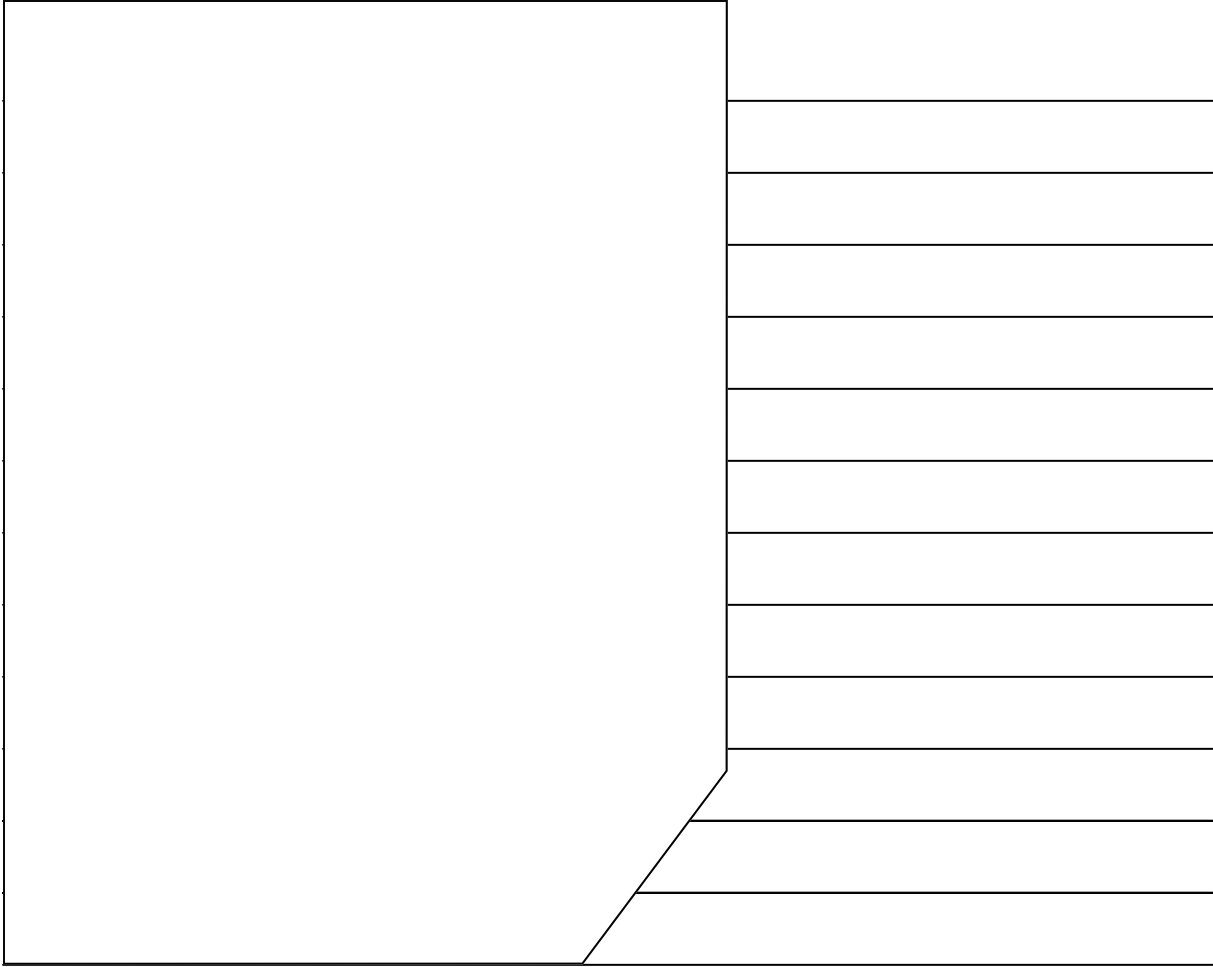
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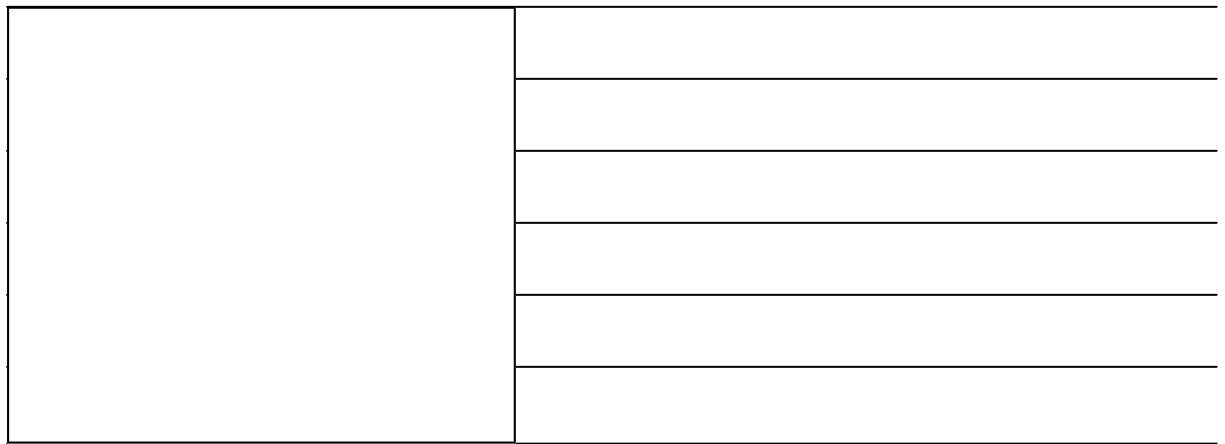
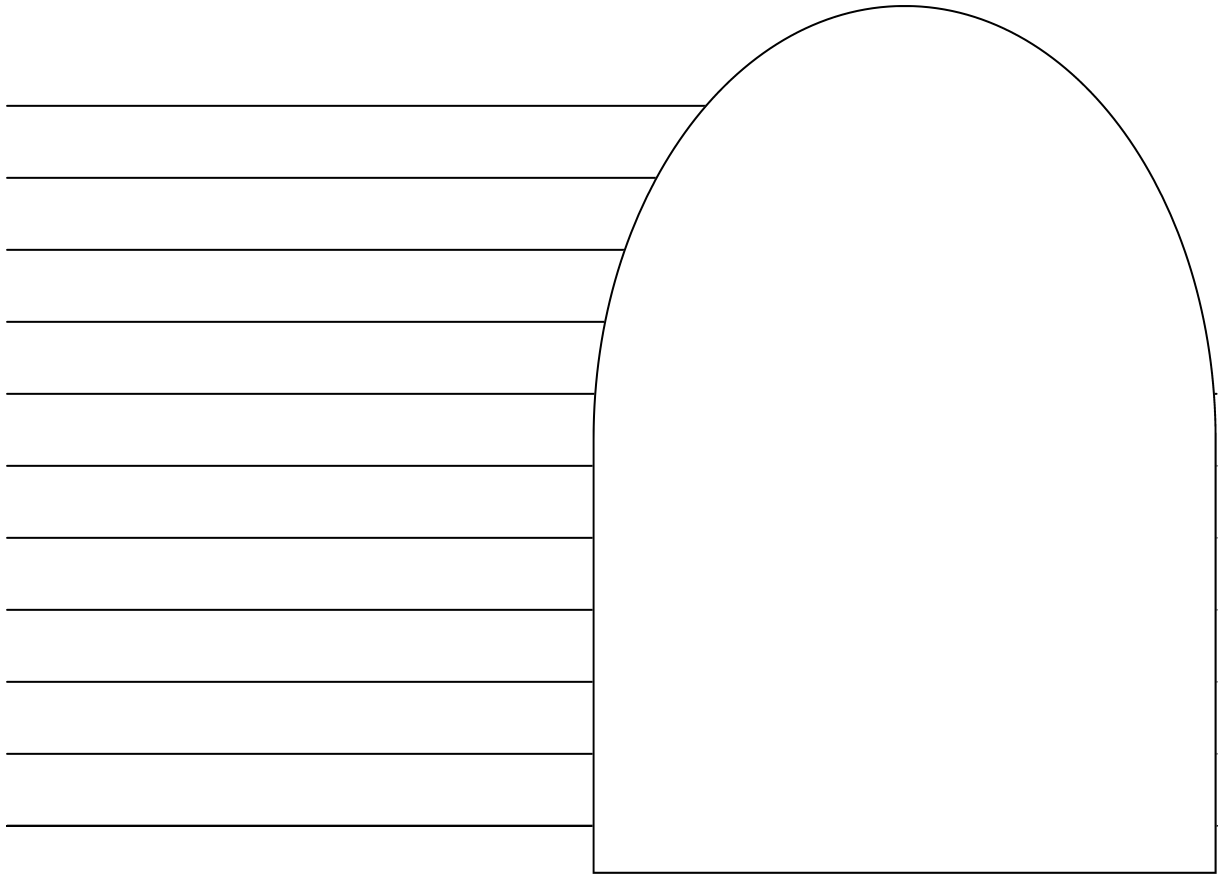
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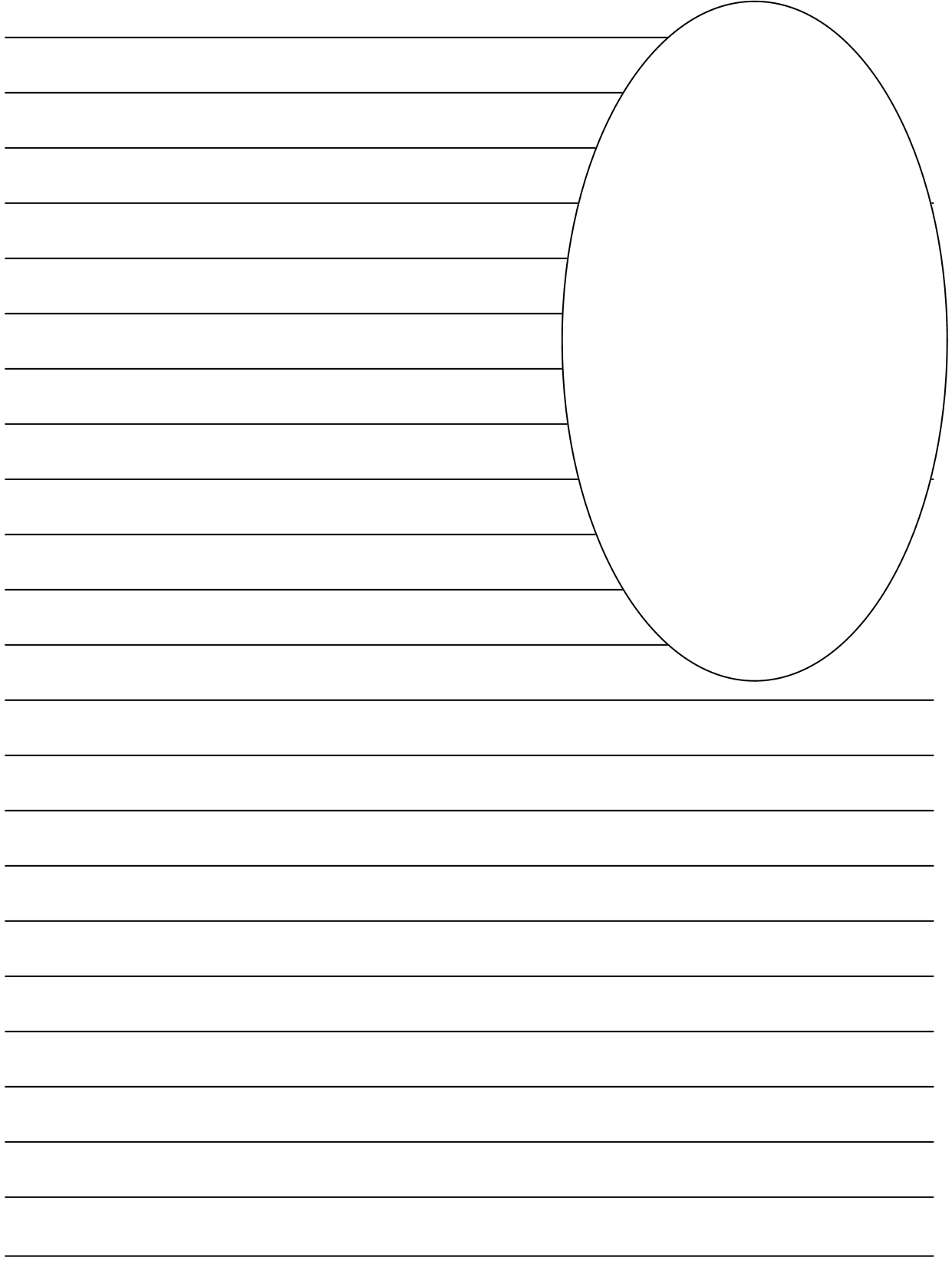
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# Scientific Speculation Sheet

Name \_\_\_\_\_

Date \_\_\_\_\_

## Experiment Title

Hypothesis: (What you think will happen and why)

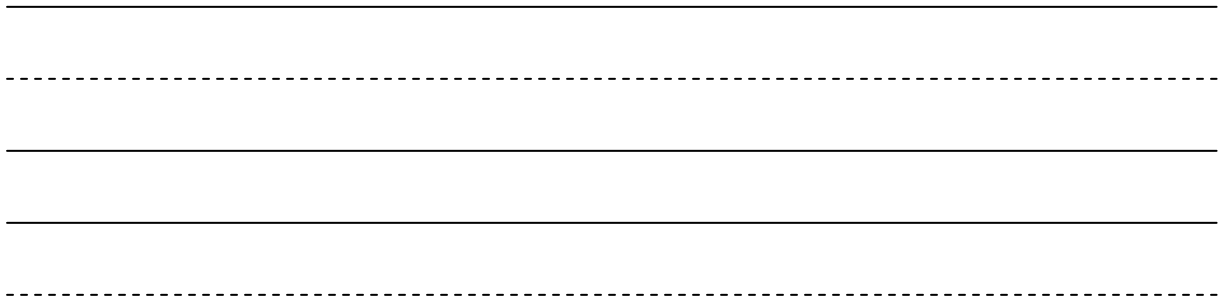
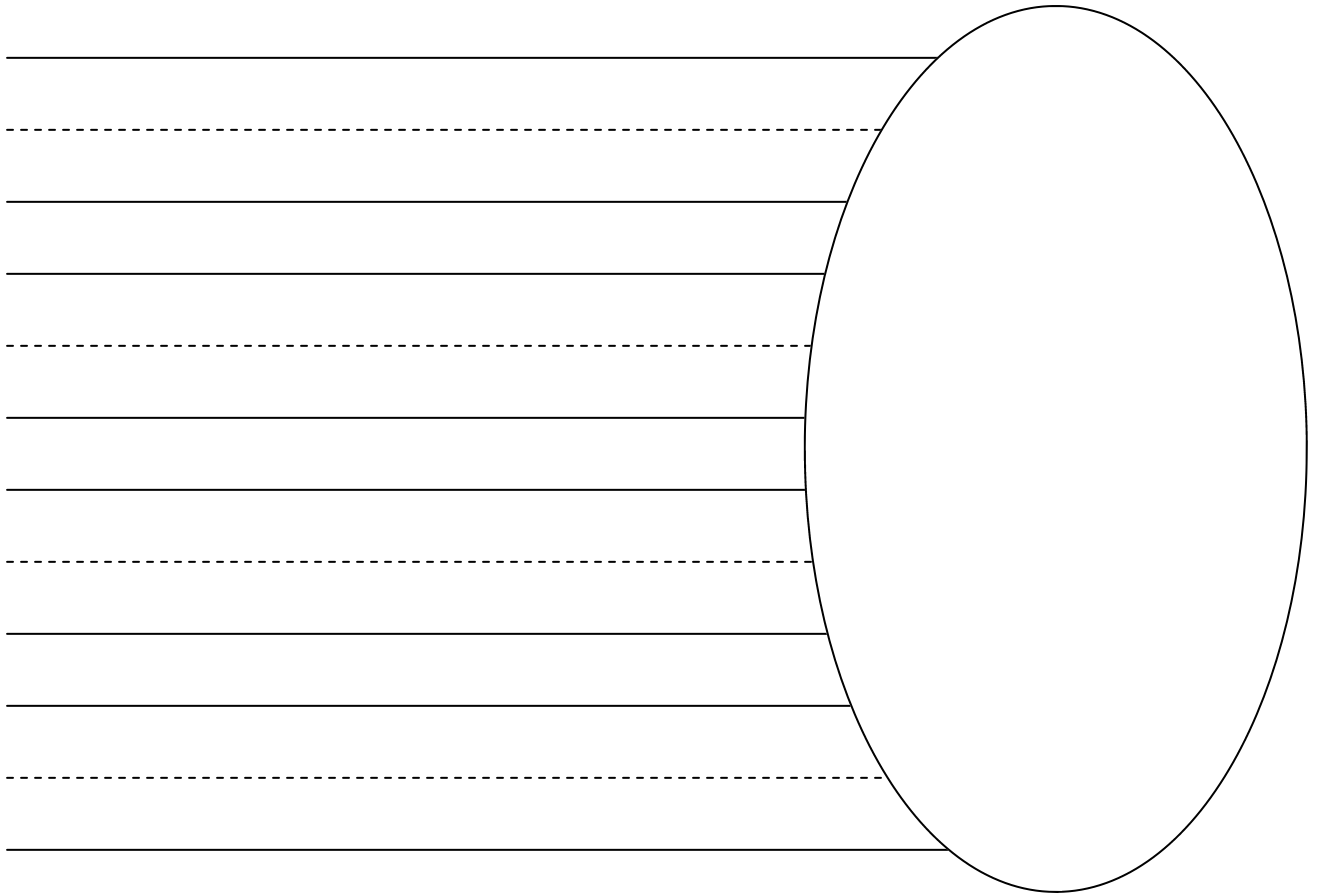
Materials Used:

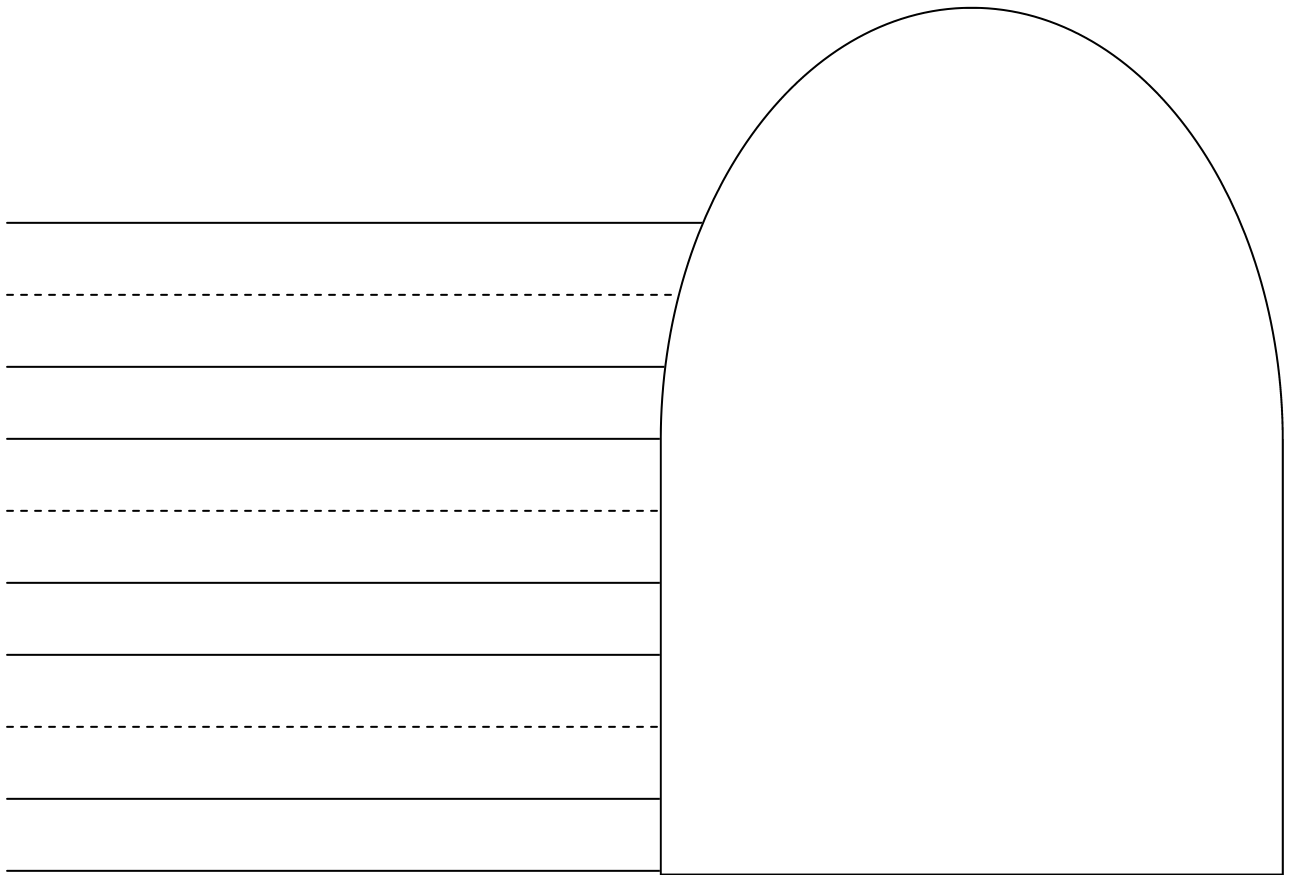
Procedure: (What you will do or did)

Results: (What happened; if it happened as you thought, was it because of the reason you stated?)

Conclusion: (What you learned)

Handwriting practice lines consisting of solid top and bottom lines with a dashed midline, repeated 10 times down the page.

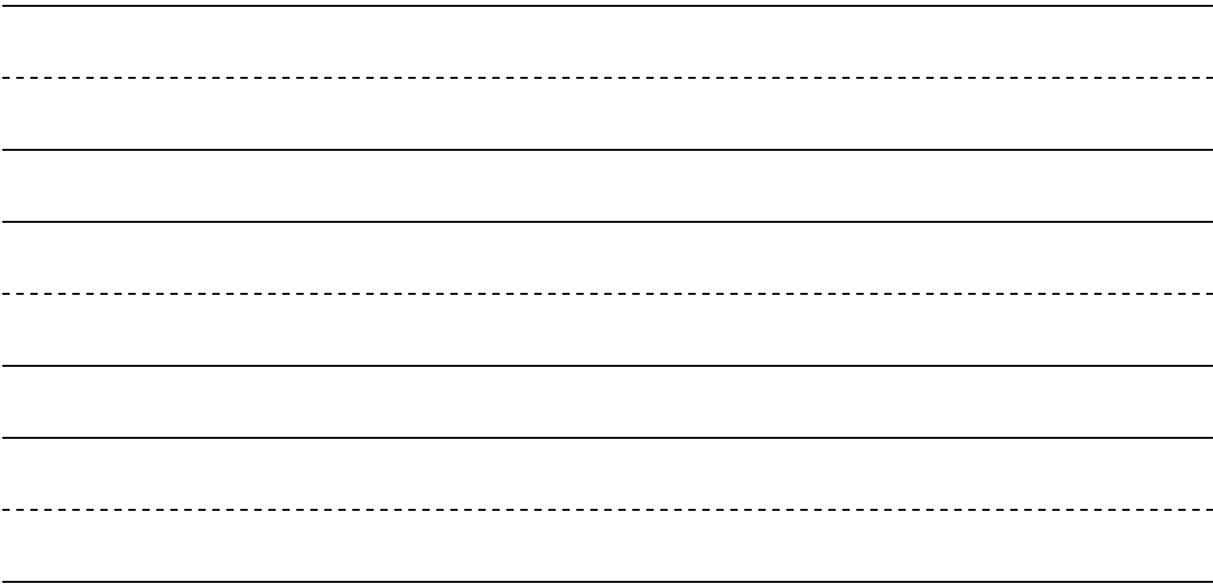
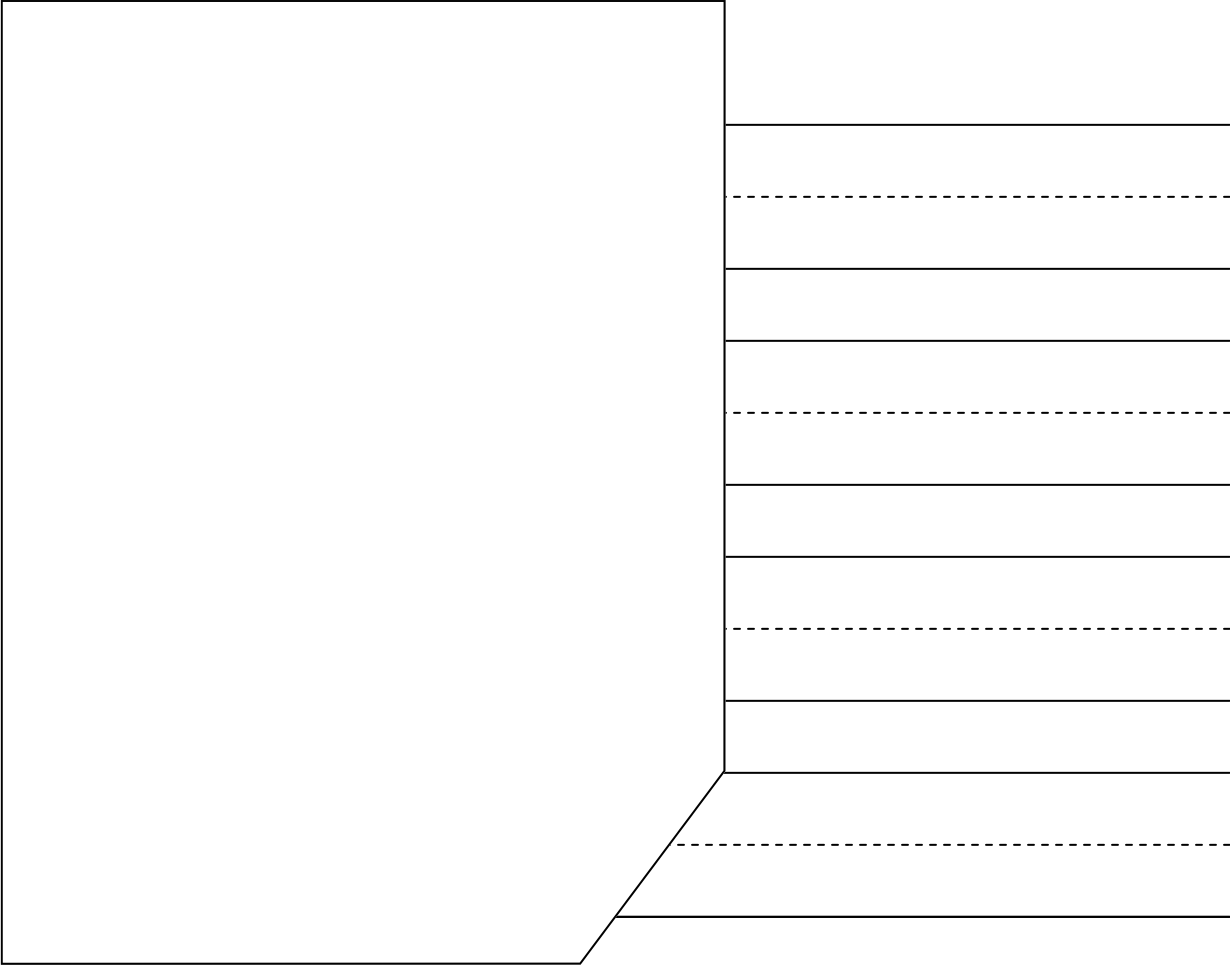




Four sets of horizontal writing lines, each consisting of a solid top line, a dashed midline, and a solid bottom line, providing space for text or labels.

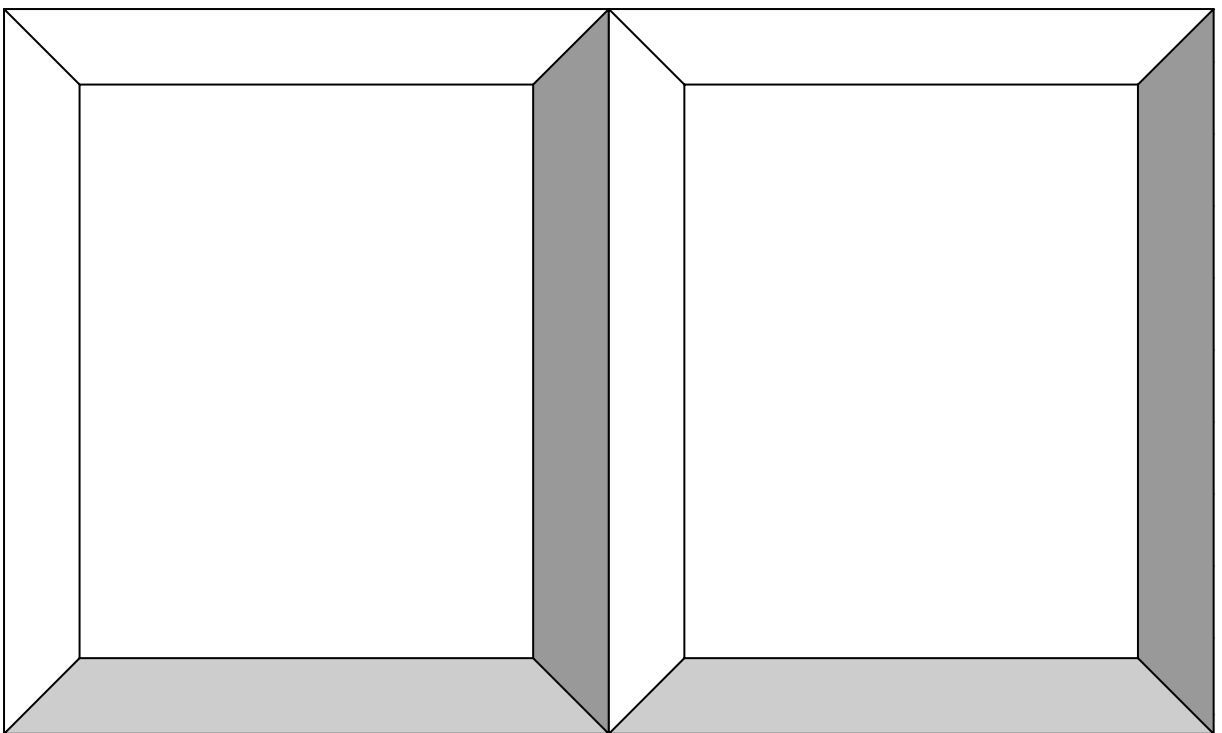
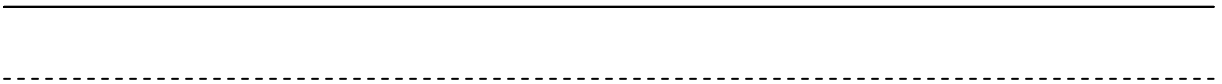


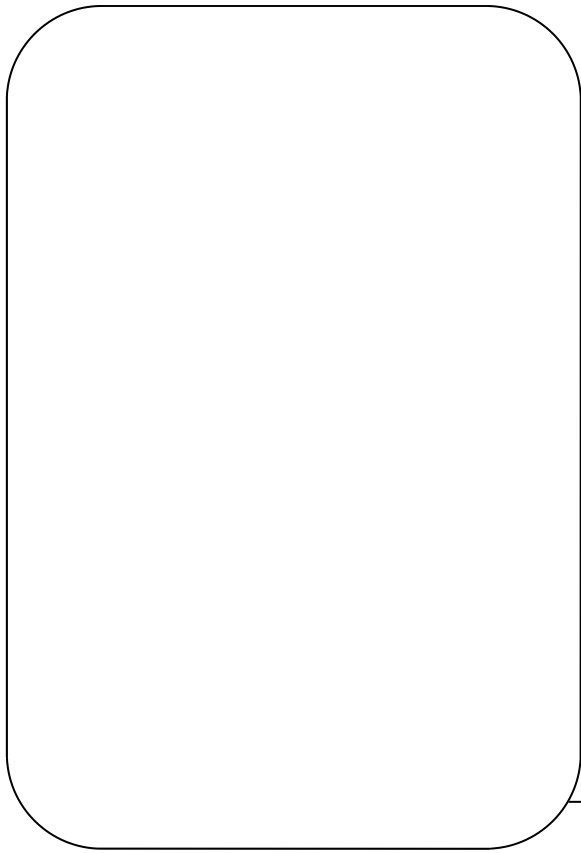
Four sets of horizontal lines for writing, each consisting of a solid top line, a dashed middle line, and a solid bottom line.



A horizontal rounded rectangular box with a thin black border, positioned at the top of the page.A series of horizontal lines for writing. It consists of four sets of lines. Each set includes a solid top line, a dashed middle line, and a solid bottom line, providing a guide for letter height and placement.A large rounded rectangular box with a thin black border, located in the bottom left section of the page. It is intended for drawing or detailed notes.A large rounded rectangular box with a thin black border, located in the bottom right section of the page. It is intended for drawing or detailed notes.



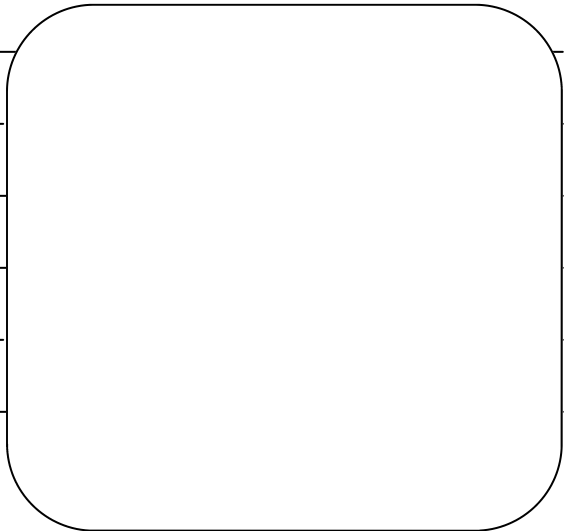




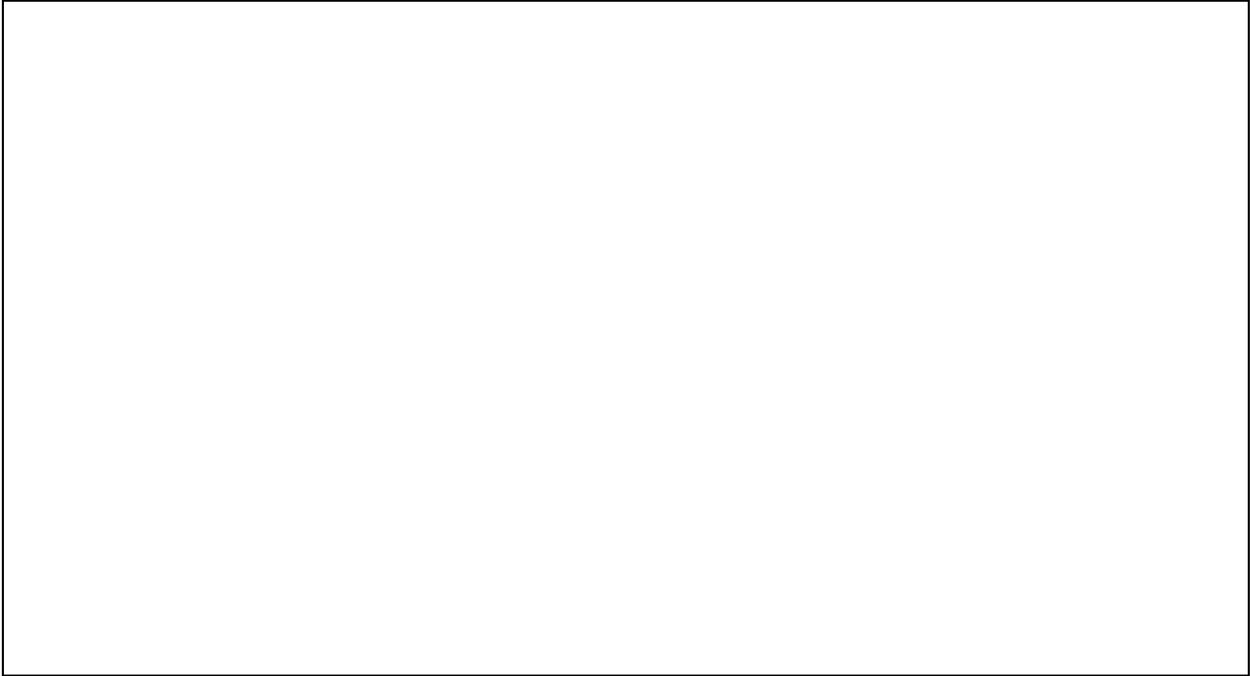
Four sets of horizontal lines for writing, each consisting of a solid top line, a dashed middle line, and a solid bottom line.

Two sets of horizontal lines for writing, each consisting of a solid top line, a dashed middle line, and a solid bottom line.

Four sets of horizontal lines for writing, each consisting of a solid top line, a dashed middle line, and a solid bottom line.



The image shows a page from a notebook. On the left side, there are 12 sets of horizontal lines, each consisting of a solid top line, a dashed middle line, and a solid bottom line. On the right side, there is a large, vertically oriented rounded rectangle with a thin black border. The lines on the left extend to the left edge of this rounded rectangle.



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