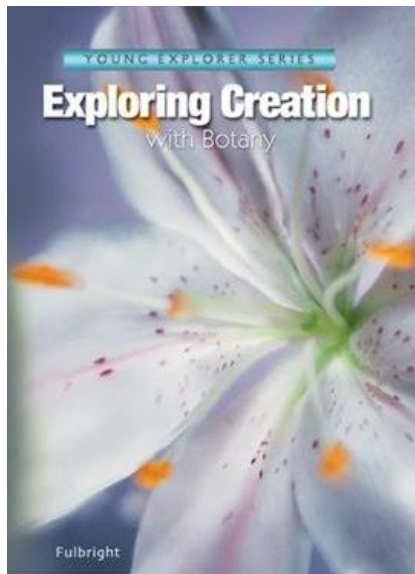


L-BP

“Exploring Creation With Botany” - Lessons 1-13 Lapbook Package

PLEASE NOTE: This product includes BOTH lapbooks for this book.
One lapbook covers lessons 1-5, and the other covers lessons 6-13.



This lapbook has been specifically designed for use with the book, “Exploring Creation with Botany” by Jeannie Fulbright and Apologia Science.

Templates are printed with colors that best improve information retention according to scientific research.

Designed by
Cyndi Kinney
of Knowledge Box Central
with permission from Apologia Science
and Jeannie Fulbright.



Exploring Creation With Botany –
Lessons 1-13 Lapbook Package
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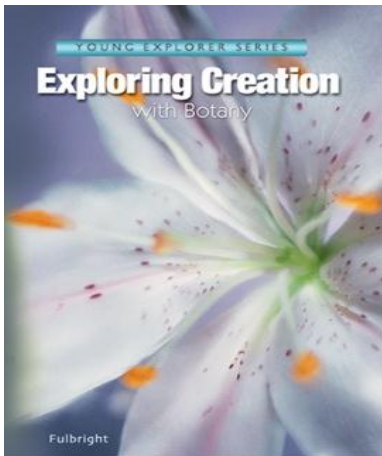
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L_B1

“Exploring Creation With Botany” Lapbook (Lessons 1-5)

PLEASE NOTE: This is the first of 2 lapbooks for this book. This particular lapbook ONLY covers Lessons 1 through 5, while another lapbook covers Lessons 6-13. You will need BOTH lapbooks in order to complete the entire book in lapbook format.



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“Exploring Creation With Botany”

Lessons 1-5 Lapbook

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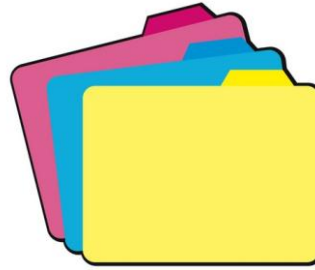
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How do I get started?

First, you will want to gather your supplies.



*** Assembly:

***Folders:** We use colored file folders, which can be found at Walmart, Sam's, Office Depot, Costco, etc. You will need between 1 and 4 file folders, depending on which product you have purchased. You may use manila folders if you prefer, but we have found that children respond better with the brightly colored folders. Don't worry about the tabs...they aren't important. Within this product, you will be given easy, step-by-step instructions for how to fold and assemble these folders. *If you prefer, you can purchase the assembled lapbook bases from our website.*

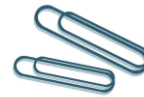
***Glue:** For the folder assembly, we use hot glue. For booklet assembly, we use glue sticks and sometimes hot glue, depending on the specific booklet. We have found that bottle glue stays wet for too long, so it's not a great choice for lapbooking. For gluing the folders together, we suggest using hot glue, but **ONLY** with adult supervision. These things get **SUPER** hot, and can cause **SEVERE** burns within seconds.



***Other Supplies:** Of course, you will need scissors. Many booklets require additional supplies. Some of these include metal brad fasteners, paper clips, ribbon, yarn, staples, hole puncher, etc.



You may want to add decorations of your own, including stickers, buttons, coloring pages, cut-out clipart, etc. Sometimes, we even use scrapbooking supplies. The most important thing is to use your imagination! Make it your own!!



Continue ON.....



Ok. I've gathered the supplies. Now how do I use this product?

Inside, you will find several sections. They are as follows:

1. **Layout and Pictures:** This section gives instructions and diagrams that will tell the student exactly how to assemble the lapbook base and where to glue each booklet into the base. Depending on the student's age, he or she may need assistance with this process, especially if you choose to allow the student to use hot glue.

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Colors & Shapes – Why Do They Matter?

After MUCH research and studies, science has shown that colors and shapes have psychological values. These influence the emotions and memories of each one of us. In our products, we have used specific colors and shapes in ways that will improve information retention and allow for a much more mentally interactive time of study. Some pages may have a notation at the bottom, where a specific color is suggested for your printing paper. This color suggestion is designed to improve information retention. However, if you do not have that specific color of paper, just print on whatever color you have. For the most benefit, follow the color suggestions, and watch your child's memory and enthusiasm truly soar!

Be creative!

Make it your own!

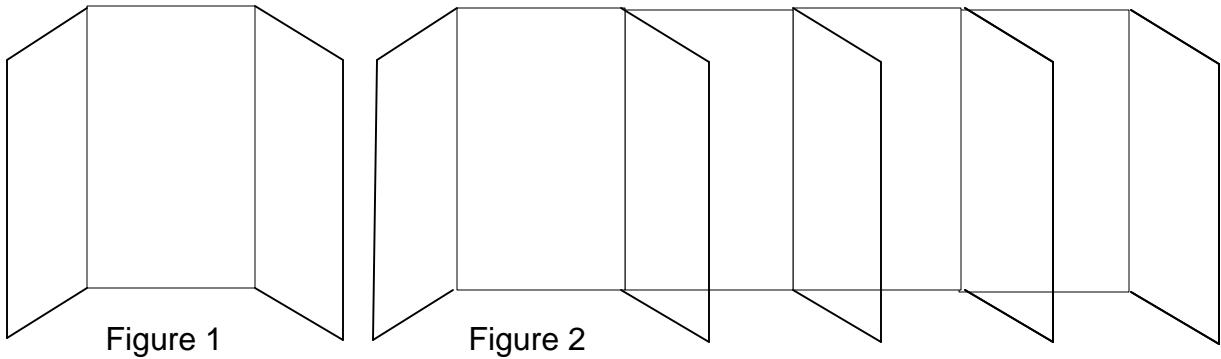
If you would like to send pictures of your completed lapbook, please do!

We would love to display your lapbooks on our website and/or in our newsletter.

**Just send your pictures, first initial & last name, and age to us at:
cyndi@knowledgeboxcentral.com**

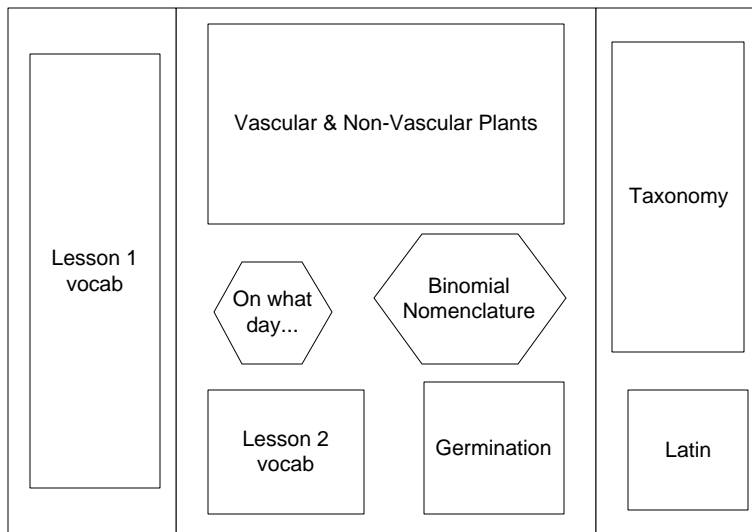
*Exploring Creation With
Botany: Lessons 1-5*
Base Assembly & Layout Guide

You will need 4 folders of any color. Take each one and fold both sides toward the original middle fold and make firm creases on these folds (Figure 1). Then glue (and staple if needed) the backs of the small flaps together (Figure 2).



This is the "Layout" for your lapbook. The shapes are not exact on the layout, but you will get the idea of where each booklet should go inside your lapbook.

Inside of 1st Folder:



Inside of 2nd Folder:

Angiosperms	Parts of the flower	More Lesson 3 Vocab
Lesson 3 vocab	Self-Pollination	Animals that pollinate flowers
	Fact	George de Mestral

Inside of 3rd Folder:

Carnivorous Plants	Bees	Draw a seed
What happens after...	Fact	Dominoes
Fact	Seed Dispersal	

Inside of 4th Folder:

Dry Fruits	Name these flowers	Why do most...	Fact
Fleshy Fruits	Evidence...	Draw flower	Word Search

Below are pictures of a completed lapbook. This should help in figuring out how to assemble the booklets and then how to put it all together!



Completed
Lapbook



1st Folder

2nd Folder



3rd Folder



4th Folder



Exploring Creation with Botany

Lessons 1 - 5

Lapbook Student Instruction Guide

Decorate the outside/ cover of your lapbook. The cover of your lapbook has purposely been left blank so that you may decorate it in any style you choose. You may draw, paint, glue pictures, etc. You may print coloring sheets and glue them to the front. The ideas for the front cover are endless. Choose a topic or art project from this unit and HAVE FUN making it your own personalized lapbook!

Also, we have included (in parenthesis) which folder of the lapbook base will contain each booklet.

Lesson 1 (All located in folder #1):

- "On What Day..." Booklet: Do you know what happened on each day of Creation? What happened on the 6th day? You can write the words or draw a picture.
- Binomial Nomenclature Booklet: These are really big words! Do you know what they mean?
- Lesson 1 Vocabulary Booklet: Here are some words that you will study in Lesson 1. Open each flap to write the definitions of the words. If you are younger, your mom may want you to draw pictures or glue in definitions.
- Latin Booklet: Do you know how to speak Latin? It is used by scientists a lot, and it is usually called a "dead language." Do you know why this is?
- Taxonomy Booklet: What is taxonomy? What are the terms that are used for classifying? This booklet provides you with the first letter of each word, along with blanks for the other letters. Can you spell them correctly?
- Vascular vs. Non-Vascular Plants Booklet: Do you know what "vascular" means? Tell the similarities and differences between vascular and non-vascular plants, using this venn diagram.

Lesson 2:

- Lesson 2 Vocabulary Booklet (Located in folder #1): How many vocabulary words from this lesson can you remember? Try to write them or draw pictures for each word.
- Germination Booklet (Located in folder #2): What is germination? It doesn't have anything to do with the germs that come with a cold! Describe it in this booklet.
- Draw & Label a Seed Booklet (Located in folder #3): Have you seen the inside of a seed? Draw one here, and then label its parts.

Lesson 3:

- God's Design for Angiosperms Booklet (Located in folder #2): What is an angiosperm? Do you know why God designed them?
- Label the Flower Booklet (Located in folder #2): How many parts of a flower can you name? Can you tell where they are too? You may also color this flower.
- Carnivorous Plants Booklet (Located in folder #3): What does "carnivorous" mean? Are you carnivorous? Tell about the plants in each of these categories. Also, color the Venus Flytrap on the front of the booklet.
- Lesson 3 Vocabulary Booklet (Located in folder #2): There are many parts of a flower. Some are named here. See if you can write the definitions under each flap.
- More Lesson 3 Vocabulary Booklet (Located in folder #2): Here are even more parts of a flower! See if you can write the definitions under each flap.
- Name the Flowers Booklet (Located in folder #4): Here are several beautiful flowers in a flower pot pocket. Color the flower pot, and then see if you can name the flowers. You might even want to find more flower pictures to place in the flower pot.

Exploring Creation With Botany

Lessons 1 - 5

Lapbook Assembly Guide

Inside of 1st Folder:

1. On What Day.. Booklet: Cut out along the outer black lines, and fold in the center, so that the title is on the front.
2. Binomial Nomenclature Booklet: Cut out along the outer black lines, and fold in the center, so that the title is on the front.
3. Lesson 1 Vocabulary Booklet: Cut out along the outer black line edges. Then, fold along the center vertical line, so that the words are on the outside. Now, fold along the other 2 vertical lines so that the title is on the outside, and the vocabulary words are on the inside. Now, cut along the dotted lines, creating little “flaps” to write beneath. See picture below:

Outside of
booklet:



Inside of
booklet:



4. Latin Booklet: Cut out along the outer black line edges. Then, fold accordion-style, so that the title is on the front, and a blank is on the back.
5. Taxonomy Booklet: Cut out along the outer black line pages. Now, glue to a piece of paper that is slightly larger and of a different color, creating a small border all the way around.
6. Vascular & Non-Vascular Plants Booklet: Cut out each page along the outer black line edges. Then, glue to a slightly larger piece of paper of a different color, creating a small border all the way around.
7. Lesson 2 Vocabulary Booklet: Cut out along the outer black line edges of each page. Stack them so that the title page is on the front and the blank page is on the back. Punch 2 holes along the left edge of the stack, and secure with ribbon or yarn, tied in a bow or knot.
8. Germination Booklet: Cut out along the outer black line edges. Then, fold along both vertical lines, so that the rounded edges almost meet, and the title is on the front. Punch a hole through both circles, and secure with a loosely tied bow. See picture below:



Exploring Creation With Botany

Lessons 1 – 5 Lapbook

Teacher's Guide

Here, you'll find information to supplement your study. Jeannie Fulbright's book is so wonderfully filled with knowledge and wisdom. All of the information needed to complete all of the booklets can be found on the pages of her book. Below, I will tell you which pages hold specific "answers." Also, you'll find many other sites listed, where you may want to go for extra information, coloring pages, games, crafts, and ideas to extend your study.

Lesson 1:

- "On What Day..." Booklet: Answers found on page 2
- Binomial Nomenclature Booklet: Answers found on page 5
- Lesson 1 Vocabulary Booklet: Answers found throughout lesson
- Latin Booklet: Answers found on pages 2-3
- Taxonomy Booklet: Answers found on pages 4-5
- Vascular vs. Non-Vascular Plants Booklet: Answers found on pages 8-14

Additional Resources for Lesson 1:

- * Site with a lot of information, mostly advanced, but nice pictures : <http://faculty.clintoncc.suny.edu/faculty/Michael.Gregory/files/Bio%20102/Bio%20102%20lectures/Seed%20Plants/seed%20plants.htm>
- * Classification & Taxonomy: <http://sln.fi.edu/tfi/units/life/classify/classify.html>

Lesson 2:

- Lesson 2 Vocabulary Booklet : Answers found throughout lesson
- Germination Booklet : Answers found on pages 24-26
- Draw & Label a Seed Booklet : Answers found on pages 26-28

Additional Resources for Lesson 2:

- * Great site for EVERYTHING about seeds and germination: <http://www.urbanext.uiuc.edu/gpe/case3/case3.html>
- * Seeds: <http://theseedsite.co.uk/seedparts.html>
- * Seeds: http://conference.uhh.hawaii.edu/hsta/what_seeds.htm

Lesson 3:

- God's Design for Angiosperms Booklet: Answers found on pages 35-37
- Label the Flower Booklet: Answers found on page 41
- Carnivorous Plants Booklet: Answers found on pages 43-46
- Lesson 3 Vocabulary Booklet: Answers found throughout the chapter
- More Lesson 3 Vocabulary Booklet: Answers found throughout the chapter
- Name the Flowers Booklet: Answers found throughout the chapter

Additional Resources for Lesson 3:

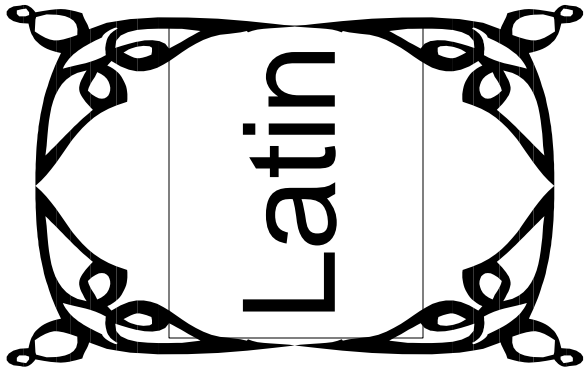
- * GREAT site for purchasing seed pods and root viewers: http://www.wackyworldsof.com/html/root_viewer.html
- * This is a site that has info about carnivorous plants. Just click on the plant on the left side of the page: <http://www.steveconrad.co.uk/bog/>
- * More on carnivorous plants: http://www.botany.org/carnivorous_plants/
- * Great site about flowers: <http://curriculum.calstatela.edu/courses/builders/lessons/less/les8/flower.html>
- * Color flower pictures: <http://www.coloring-page.net/flowers.html>
- * Flower coloring pages: <http://www.coloring.ws/flowers.htm>

Lesson 1

On what day did God
create plants?



**Paper
Suggestion:
Green**



Why is it called
a dead
language?

Why do
scientists use
Latin?

Latin words I
know:

Lesson 1

What is
Binomial
Nomenclature?

Conifer

Botany

Taxonomy

Ptero

Biology

L
E
S
S
O
N

1

V
O
C
A
B
U
L
A
R
Y

Classification

Antho

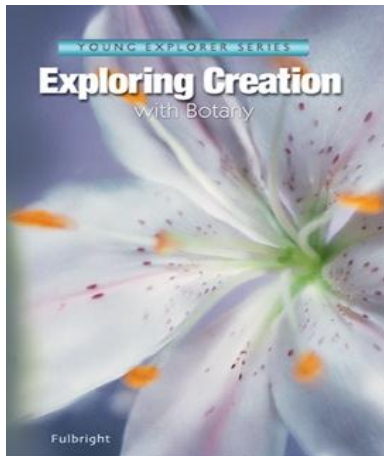
Bryo

Gymnosperms

Angiosperms

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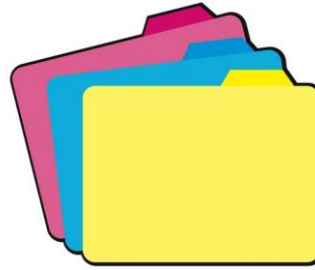
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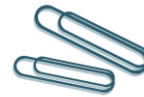
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Ok. I've gathered the supplies. Now how do I use this product?

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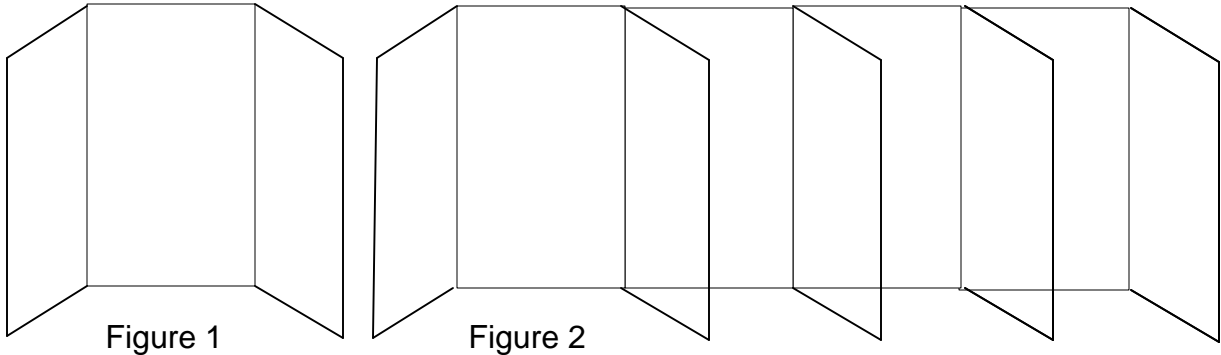
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cyndi@knowledgeboxcentral.com

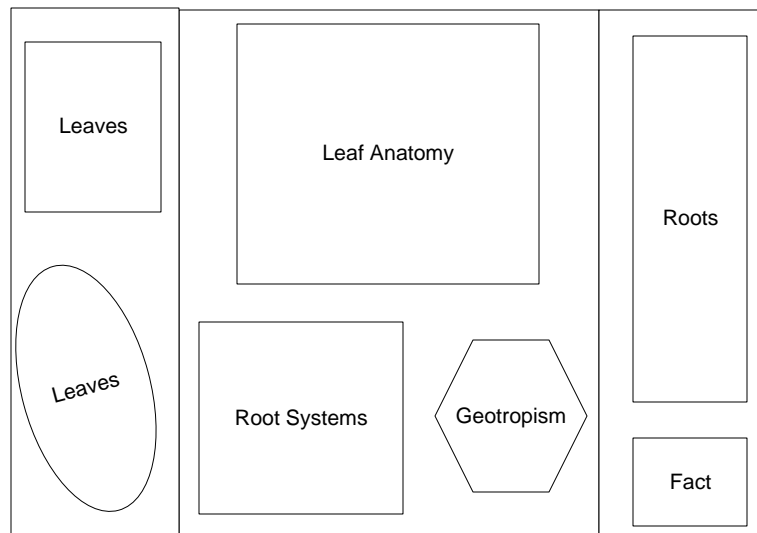
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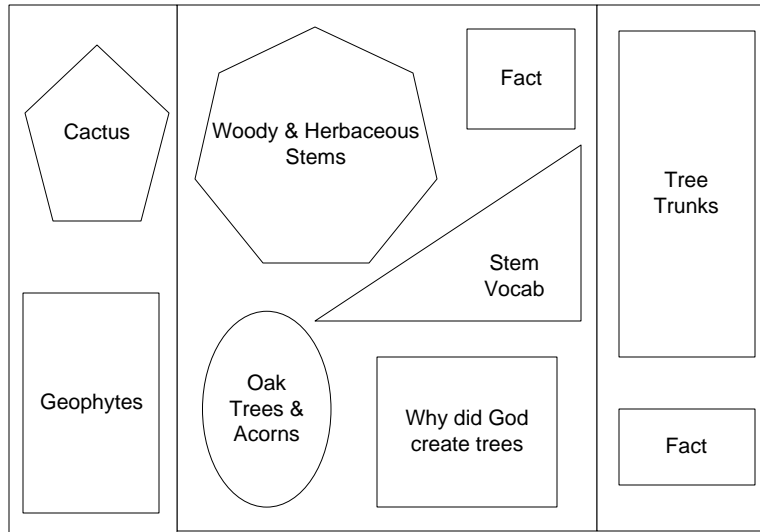
Inside of 1st Folder:



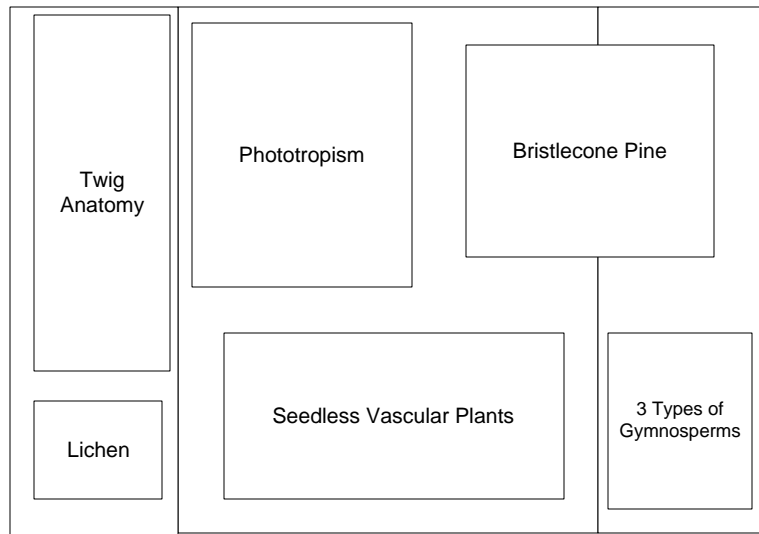
Continue ON.....



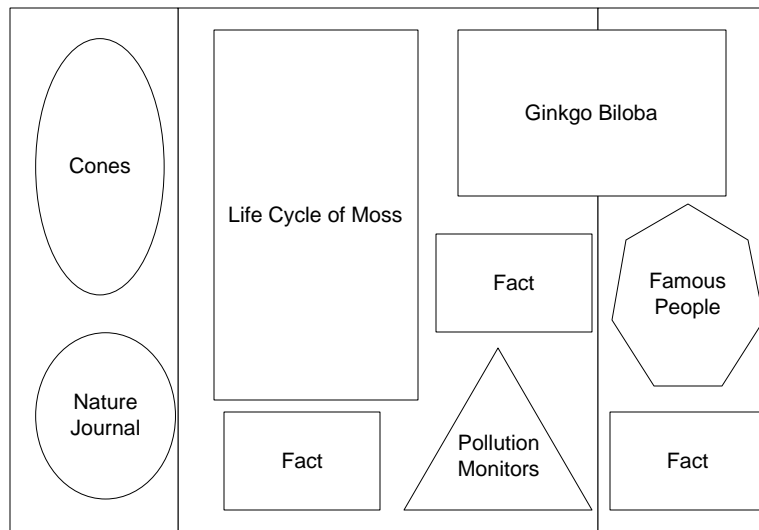
Inside of 2nd Folder:



Inside of 3rd Folder:



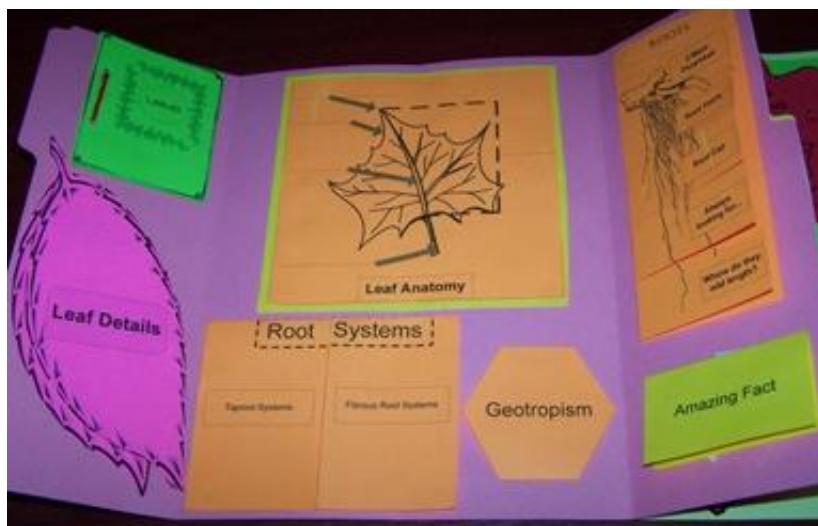
Inside of 4th Folder:



Below and on the next page, you'll find pictures of a completed lapbook. This should help in figuring out how to assemble the booklets and then how to put it all together!



Completed Lapbook



1st Folder

Continue ON.....



2nd Folder



3rd Folder

4th Folder



Exploring Creation With Botany

Lessons 6 – 13 Lapbook

Student Instruction Guide

Decorate the outside/ cover of your lapbook. The cover of your lapbook has purposely been left blank so that you may decorate it in any way that you choose. You may draw, paint, glue pictures, etc. You may print coloring sheets and glue them to the front. The ideas for the front cover are endless. Choose a topic or art project from this unit and HAVE FUN making it your own personalized lapbook!

Lesson 6:

- Leaves Booklet: Have you ever looked closely at a leaf? They are really fascinating. Did you know that they have mouths on them??? Answer these questions about leaves. You may even want to draw pictures.
- Leaf Anatomy Booklet: Can you name the parts of a leaf? Find a leaf outside and see if you can name the parts. Also, label them on this diagram.
- Leaf Details Booklet: How much have you learned about leaves? Tell about the different shapes, arrangements, and more! You can even color or decorate this leaf booklet on the outside if you like.

Lesson 7:

- Roots Booklet: Have you ever noticed the roots of a tree? Have you ever noticed that they have hair? Roots are amazing. See if you can answer these questions about them.
- Geotropism Booklet: Does it matter which side of a seed you have “pointing up” when you plant it in the ground? Why or why not? Explain geotropism. Isn’t God amazing!?
- Root Systems Booklet: What are the different types of root systems? They are taproot and fibrous root. Can you tell what the difference is? Maybe you will want to draw or glue a picture too.
- Geophytes Venn Diagram Booklet: Have you ever used a Venn Diagram? They are used to tell how things are both alike and different. In this one, you are comparing 3 different things: corms, tubules, and rhizomes.

Lesson 8:

- Stem Vocabulary Booklet: Have you ever broken open a stem? Did you know that there is sugar in there?? Try your best to define these words.
- Woody & Herbaceous Stems Booklet: Do you know what “woody” and “herbaceous” mean? They are funny words, aren’t they? See if you can answer the questions about these types of stems.
- Cactus Booklet: Have you ever seen a cactus? What is something that most trees have...but a cactus doesn’t? That’s right...Leaves! Why do you think that God did not give leaves to cacti (that is the word for more than one cactus)?
- Phototropism Booklet: This is a fun booklet. It will show you how phototropism works. Have you ever noticed how flowers seem to grow toward the sun? Explain how this works!

Lesson 9:

- Why Did God Create Trees Booklet: How many trees do you have in your yard? How about on your street? Trees are incredible, and God created them for very special reasons. Do you know what they are?
- Oak Trees & Acorns Booklet: Do you have any oak trees in your yard? If you do, then you probably also have acorns! And if that is the case, then you more than likely have squirrels! See if you can answer these questions about these amazing creations.
- Twig Anatomy Booklet: Twigs have a lot of little parts that have special functions. See if you can label them all.
- Tree Trunk Layers & Their Jobs Booklet: Did you know that the center of a tree trunk is dead? Tree trunks have 5 layers, and each layer has a different job. Do you know what they are?

Continue ON.....



Exploring Creation With Botany

Lessons 6 - 13

Lapbook Assembly Guide

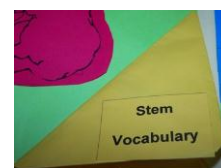
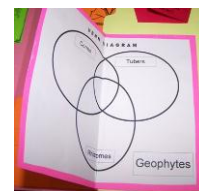
Inside of 1st Folder:

1. Leaves Booklet: Cut out each page of the booklet, and stack them together, with the title on top. Punch 2 holes on the left side of the stack, and secure with a ribbon or yarn, tied in a bow on the back of the booklet. We like to use green ribbon or yarn, so that it is the color of most leaves.
2. Leaf Details Booklet: Cut out all of the leaf shapes, and stack them together, with the title on top. Now, put a staple through the “stems” so that they are all secured together.
3. Leaf Anatomy Booklet: Cut out along the outer black line edges. Then, glue to a slightly larger piece of paper of a different color, so that there is a small border around the edges.
4. Root Systems Booklet: Cut out along the outer black line edges. Then, fold along the center line so that the title is on the front. Now, cut along the vertical line that is on the front cover, cutting through the title “Root Systems.” Now, you will have 2 “flaps” on front.
5. Geotropism Booklet: Cut out along the black line edges of the booklet. Fold along the center line so that the title is on the front.
6. Roots Booklet: Cut out along the outer black line edges of the booklet. Then, fold along the center vertical line, so that the words and graphic are on the outside. Now, cut along the dotted lines, creating “flaps.” See the picture.
7. Amazing Fact Booklet: Cut out along the outer black line edges of the booklet. Then fold along the center line so that the title is on the front.



Inside of 2nd Folder:

1. Cactus Booklet: Cut out along the outer black line edges of each page. Then fold along the center line so that the title is on the front.
2. Geophytes Booklet: Cut out along the outer black line edges of the Venn Diagram. Then glue to a slightly larger piece of paper of a different color, so that there is a small border around the edges. Now, fold down the center, vertically. Only one side of the booklet will be glued to the folder. See picture.
3. Woody & Herbaceous Stems Booklet: Cut out along the outer black line edges of each page. Then, stack them together, with the title on top. Punch a hole through the top of the trees, and secure with a metal fastener brad. The tree in the front will be smaller than the parts in the back. This helps to create the effect of being a real tree.
4. Stem Vocabulary Booklet: Cut out along the outer black line edges. Now, put the square on the table in front of you, with the words facing down. Fold each corner toward the center, so that the words are now showing on top. Once you have folded all 4 corners into the center, fold one corner over to meet the corner on the opposite side, creating a triangle. Cut out the label, and glue it to the outside. See picture on the right.



Continue ON.....



Exploring Creation With Botany

Lessons 6 – 13 Lapbook

Teacher's Guide

Here, you'll find information to supplement your study. Jeannie Fulbright's book is so wonderfully filled with knowledge and wisdom. All of the information needed to complete all of the booklets can be found on the pages of her book. Below, I will tell you which pages hold specific "answers." Also, you'll find many other sites listed, where you may want to go for extra information, coloring pages, games, crafts, and ideas to extend your study.

I have been questioned as to why I merely give you the page numbers for the answers instead of the answers themselves. If I were to give you ONLY the answers, then there would be no need for you to have Jeannie's awesome book...right? Also, this will require the parent to actually read the book as well, which was Jeannie's intention from the beginning. So, I hope that you understand my decision to not "just give the answers." It really is a calculated plan on mine and Jeannie's part.

Lesson 6:

- Leaves Booklet: Answers found on pages 87-89
- Leaf Anatomy Booklet: Answers can be found on page 96
- Leaf Details Booklet: Answers can be found on pages 97-102

Additional Resources for Lesson 6:

- * Excellent graphics and explanations of leaf anatomy: <http://www.botany.uwc.ac.za/ecotree/leaves/InsideLeaf.htm>
- * Detailed explanation of photosynthesis: <http://www.emc.maricopa.edu/faculty/farabee/BIOBK/BioBookPS.html#What%20is%20Photosynthesis?>
- * Another site about photosynthesis: <http://photoscience.la.asu.edu/photosyn/education/learn.html>
- * Identifying Leaves / Nature Collage Idea: <http://www.activityvillage.co.uk/autumn%20crafts%20nature%20collage.htm>
- * Leaf Shapes: <http://www.theseedsite.co.uk/leafshapes.html>
- * Leaf Colors: <http://www.sciencemadesimple.com/leaves.html>

Lesson 7:

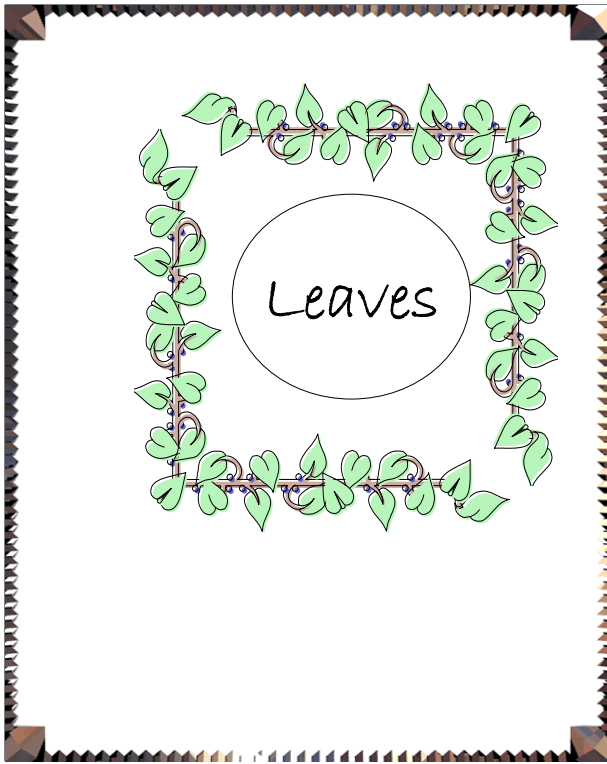
- Roots Booklet: Answers can be found on pages 107-110
- Geotropism Booklet: Answers can be found on page 111
- Root Systems Booklet: Answers can be found on pages 111-112
- Geophytes Venn Diagram Booklet: Answers can be found on pages 112-113

Additional Resources for Lesson 7:

- * This site has a good bit of information about root systems: <http://www.theteachersguide.com/plantsflowers.htm>
- * This site has a video about how plants grow in space: http://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/How_Plants_Grow_in_Space.html

Lesson 8:

- Stem Vocabulary Booklet: Answers can be found on pages 117-118
- Woody & Herbaceous Stems Booklet: Answers can be found on pages 118-120
- Cactus Booklet: Answers can be found on page 121
- Phototropism Booklet: Answers can be found on pages 121-123



What are
"stomata," and
what is the
origin?

Why are leaves of
a plant so
important?

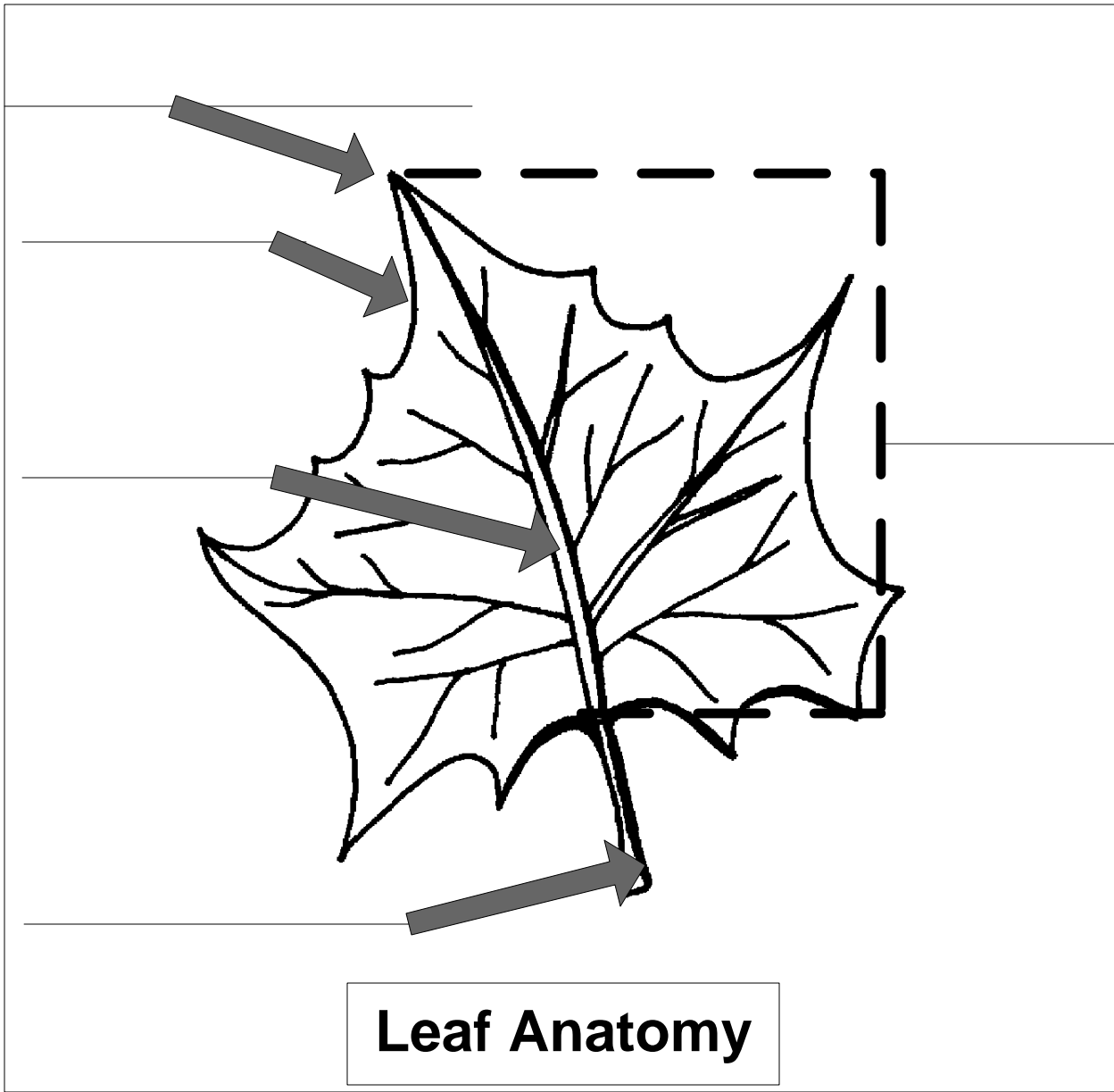
What would
happen if a plant
lost all of its
leaves?

How does the leaf
use Carbon
Dioxide?

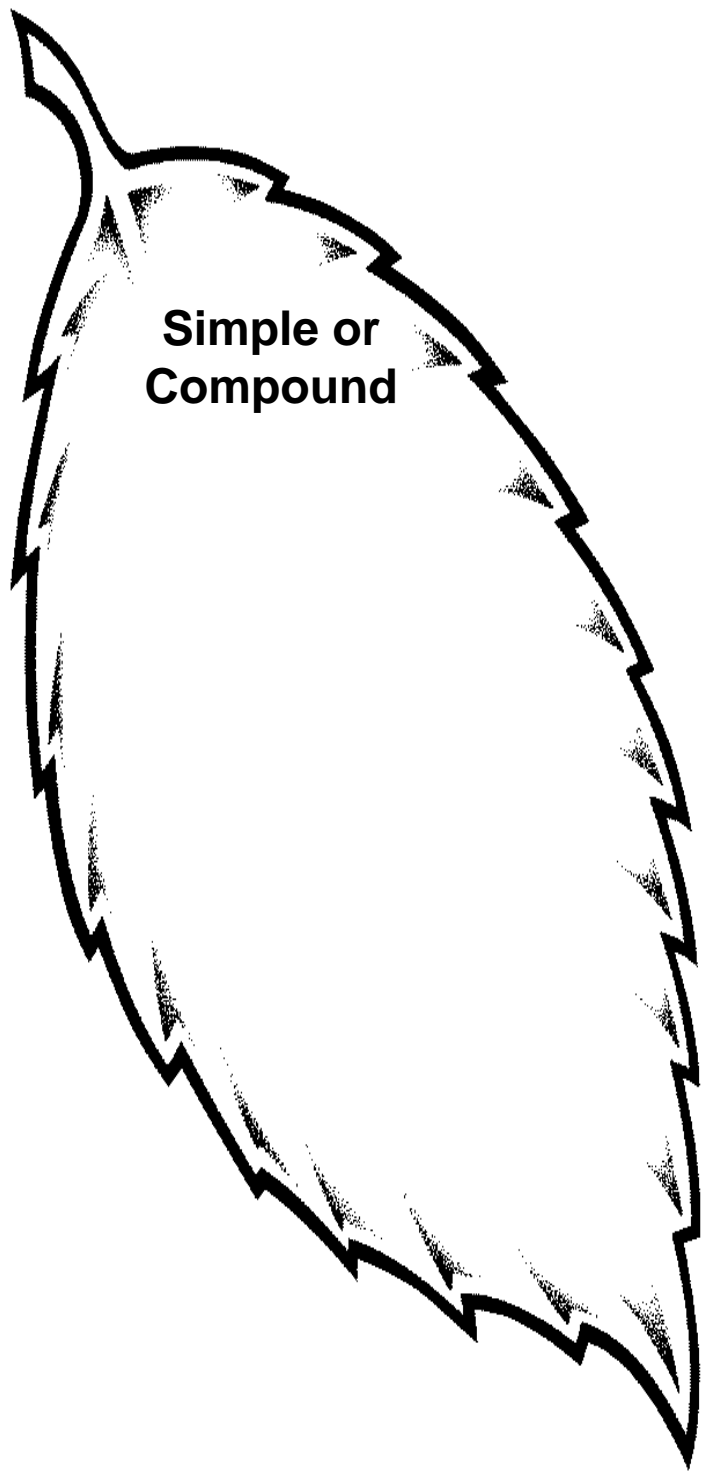
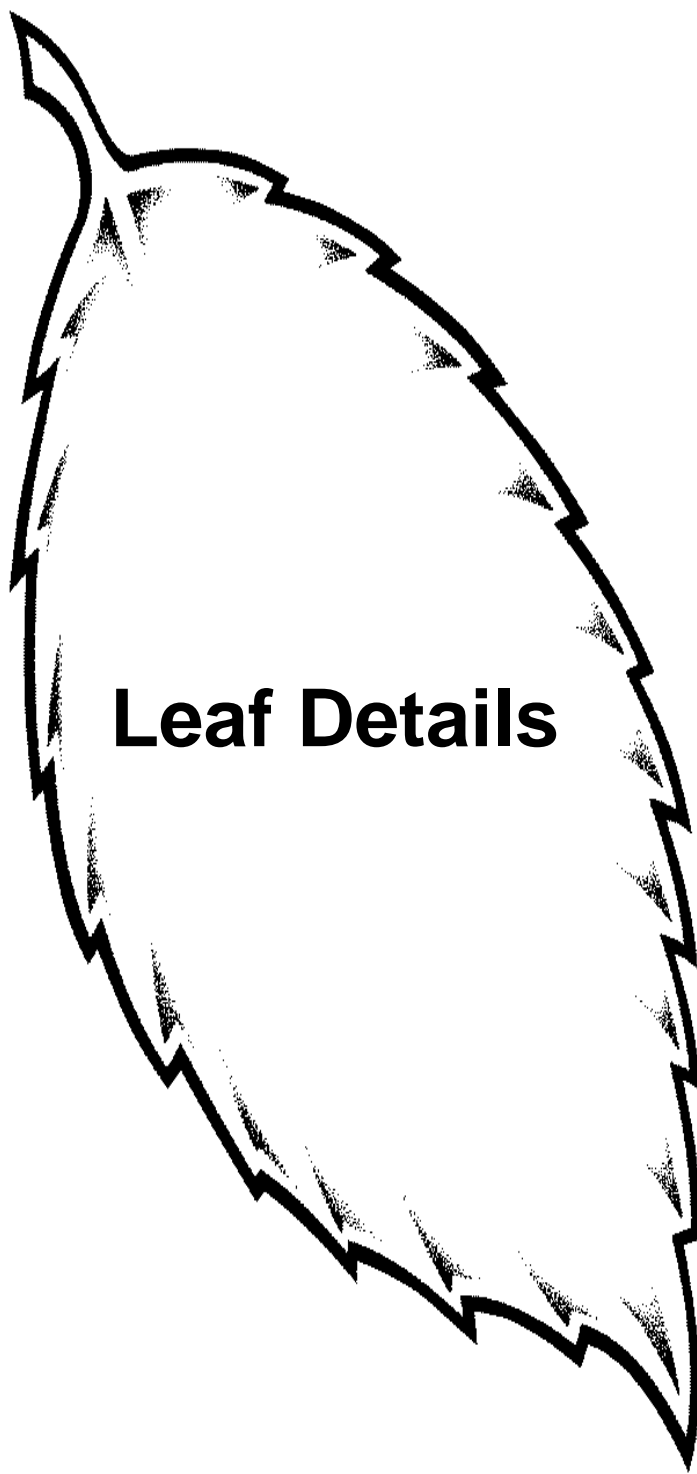
Photosynthesis

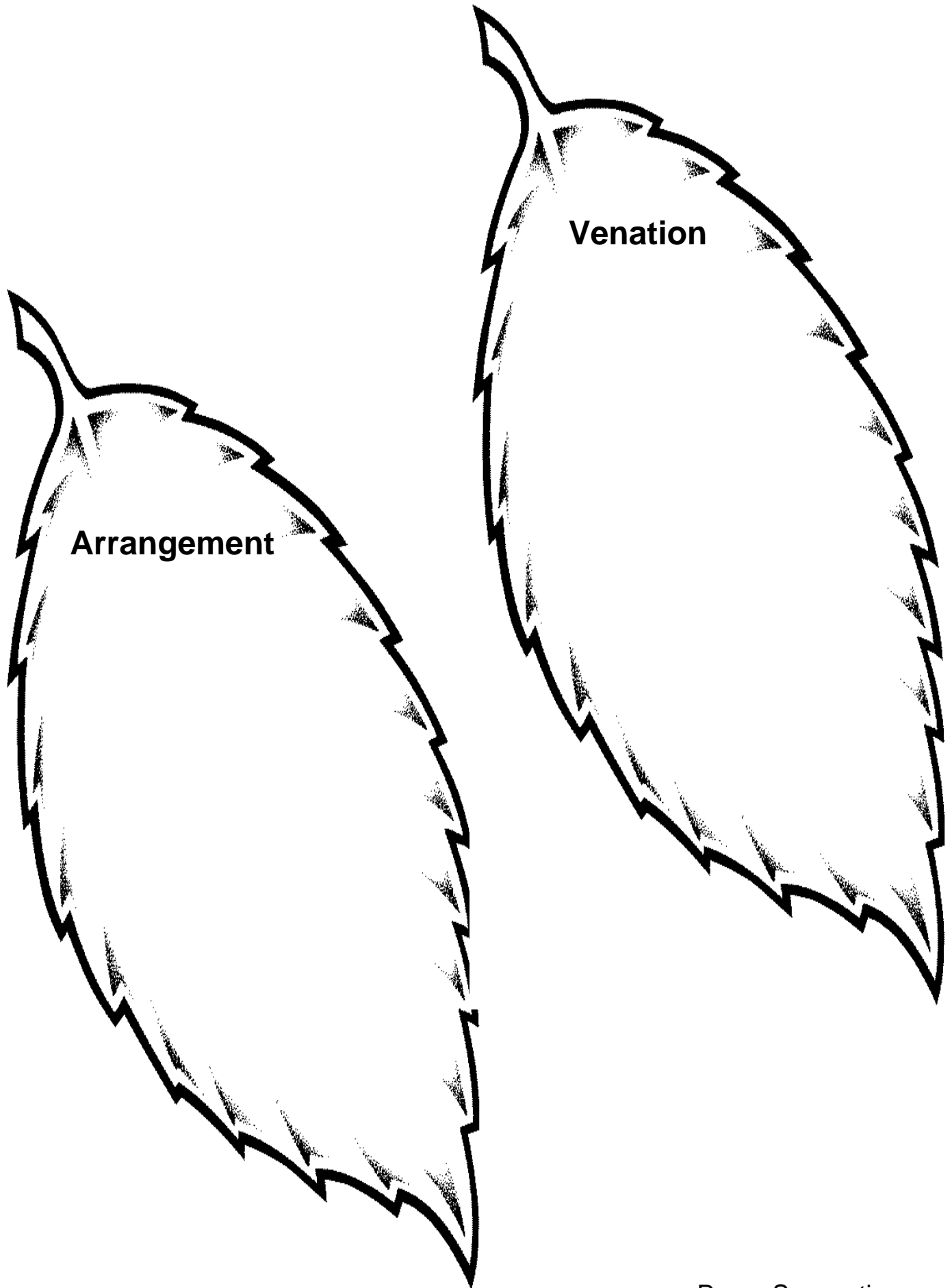
Chlorophyll

Transpiration



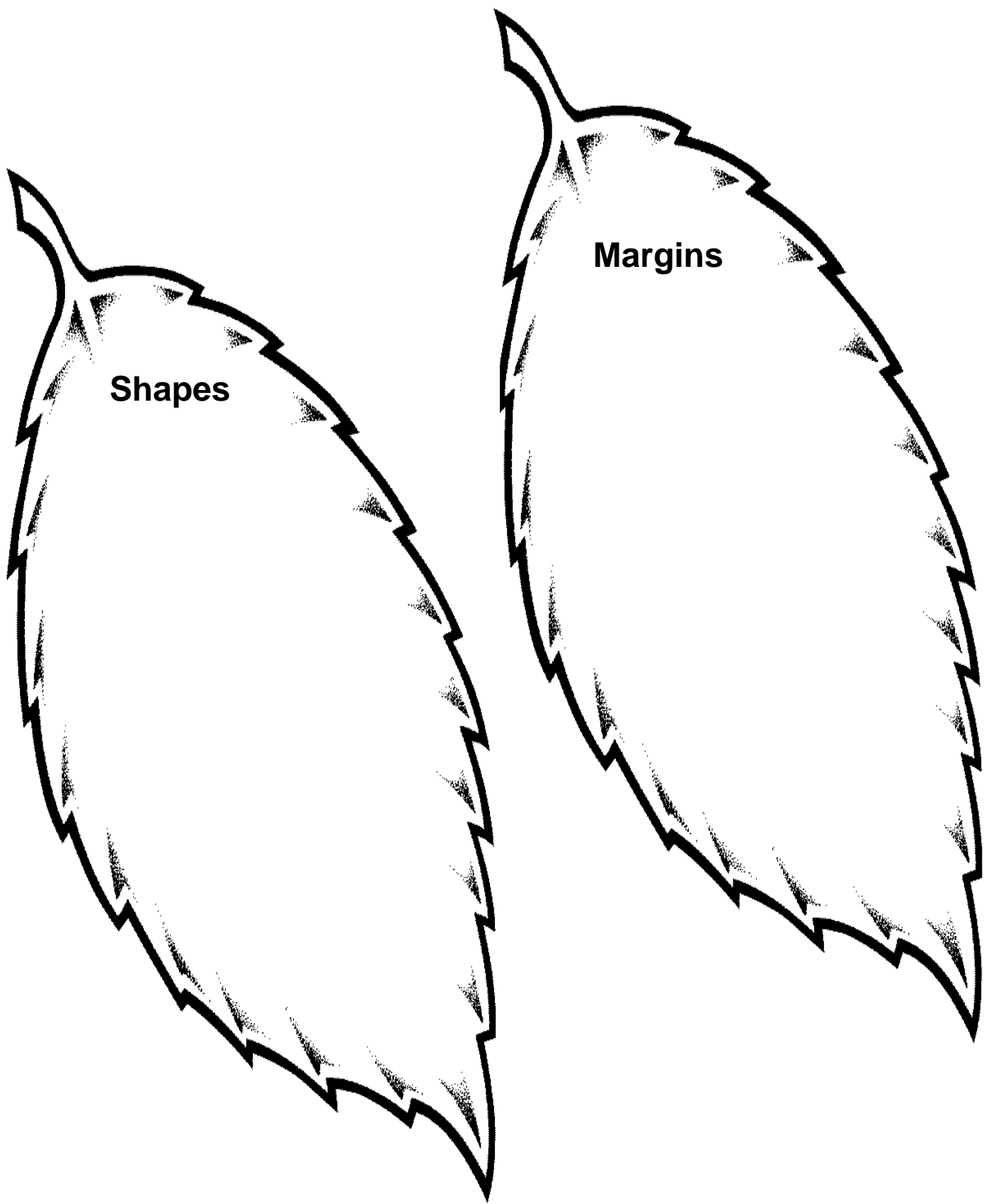
Lesson 6





Arrangement

Venation



Shapes

Margins

