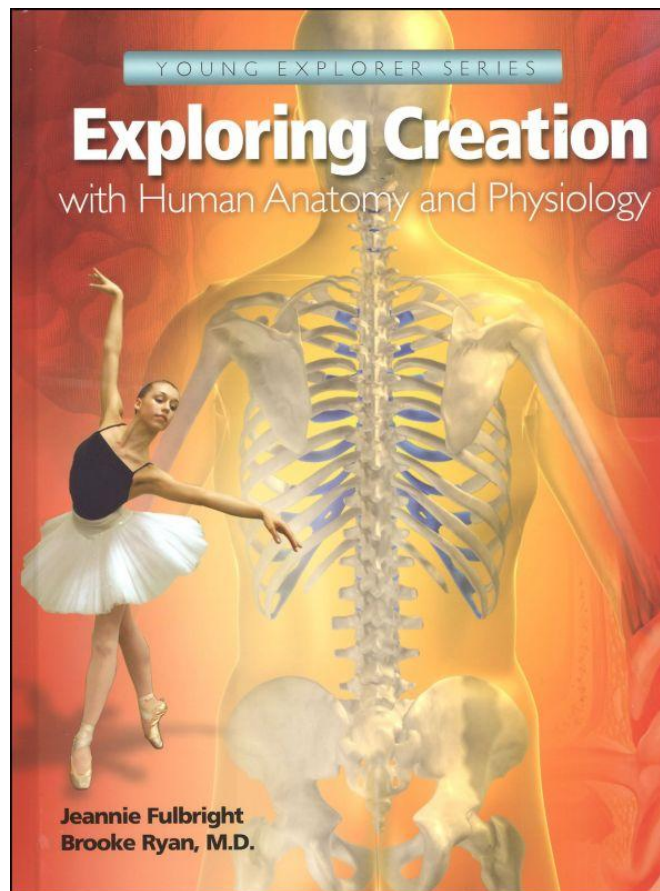




Grades 4 and up

Exploring Creation with Human Anatomy and Physiology Lapbook



A Journey Through Learning
www.ajourneythroughlearning.com

**Exploring Creation with Human
Anatomy and Physiology™**

Authors: Paula Winget and Nancy Fileecia

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www.ajourneythroughlearning.com

While there, sign up for our email newsletters and receive a FREE lapbook!
You'll also receive great discount codes, special offers, and find out
what's new and what's to come!

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We would like to give a huge thank you to Jeannie Fulbright and Davis Carman
for their permission and support of this product.

Clip art from www.clipart.com

Materials Needed

What you need to get started

- *A printed copy of the Exploring Creation with Human Anatomy and Physiology - by A Journey Through Learning
- *Exploring Creation with Human Anatomy and Physiology book by Jeannie Fulbright and Brooke Ryan, M.D.
- *14 colored file folders
- *Scissors
- *Glue (We recommend Zip Dry Glue)
- *Hole puncher
- *Brads
- *Stapler
- *Crayons and/or colored pencils

To make the storage system

- *Duct tape
- *One 3-ring binder

How to Start

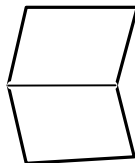
This lapbook is designed to be done with Apologia's Exploring Creation with Human Anatomy and Physiology textbook. There are 14 chapters in the Apologia textbook. Each chapter has one folder devoted just to that chapter, making it a total of 14 folders needed to complete this lapbook. Gather your folders and fold them so that they will be ready to use as you get to each lesson. Directions for folding are included on a following page.

At the top of each mini-booklet page are directions concerning the construction of your mini-booklet, pages to read from the Fulbright book (highlighted in bold text), and what your student will record in the mini-booklet after reading to show what is learned. A small key is also here to show you where to glue each mini-booklet into the folders.

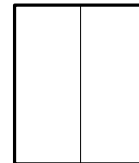
When the first two folders are filled up with the mini-booklets, follow the directions for using duct tape and a three-ring binder to make a storage system. Do this for all of your folders as they are completed by the student.

In the back you will an answer key, additional reading suggestions for each lesson, and enrichment pages.

Hamburger Fold-Fold horizontally



Hotdog Fold-Fold vertically

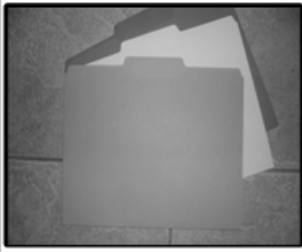


Folds-Labeled with a small line to show where the fold is and the words "hamburger fold" or "hotdog fold."

Dotted Lines-These are the cutting lines

Cover Labels-Some of the booklets will have a cover label that will need to be glued to the top to cover a blank space.

Folding the folders



1. Gather the number of folders required for your particular lapbook.



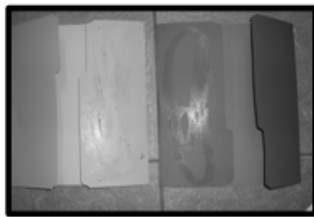
2. Open up each folder and flatten it out.



3. Take the right side and fold it all the way over until the tab is just before the middle crease in the folder. Do not overlap this crease with the tab.



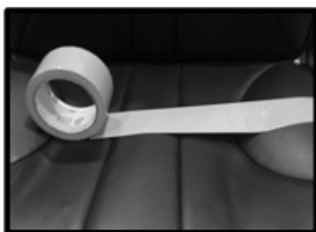
4. Fold the left hand-side over just to the crease but not overlapping it. Your folder now has two flaps. We like to run a ruler down each fold to make the fold neater and flatter. Do steps 3 and 4 to the remaining folders. Now it is time to begin your lapbook.



5. When your child has filled up the first two folders with the mini-booklets, take the two folders and apply a generous amount of glue to their flaps. Stick them together. Now you are ready to prepare them for the storage system. Do the same for the rest of the folders as they are completed.

Making a storage system for your lapbook(s)

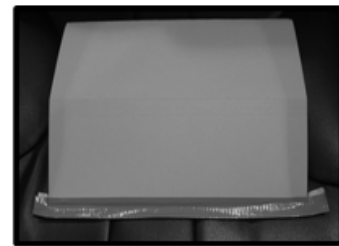
This method of storage not only keeps your lapbooks from getting lost but also keeps them neat and readily available to show to dad, grandparents, friends, etc. When they are not being shown off, just place the binder on your bookshelf!



Roll out enough duct tape to go across the folders lengthwise.



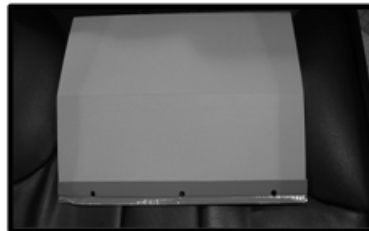
Put duct tape sticky side up. Place binded edge of lapbook on the duct tape (no more than $\frac{1}{4}$ inch!).



Then stick duct tape to the other side again about $\frac{1}{4}$ inch. There will need to be enough tape to hole punch.



Stick duct tape into hole puncher but be careful not to punch holes in your folders.



It will look like this.



Store folders in 3-ring binder.

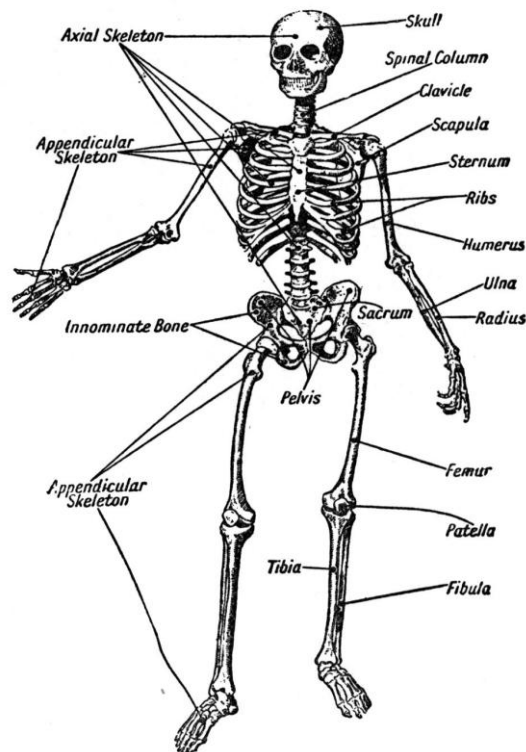
Cut out along the dotted line. Glue onto front of lesson (chapter) 1 folder.

Lesson 1

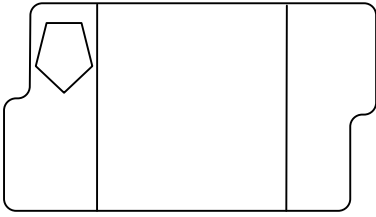
Introduction to Anatomy and Physiology

Lesson 2

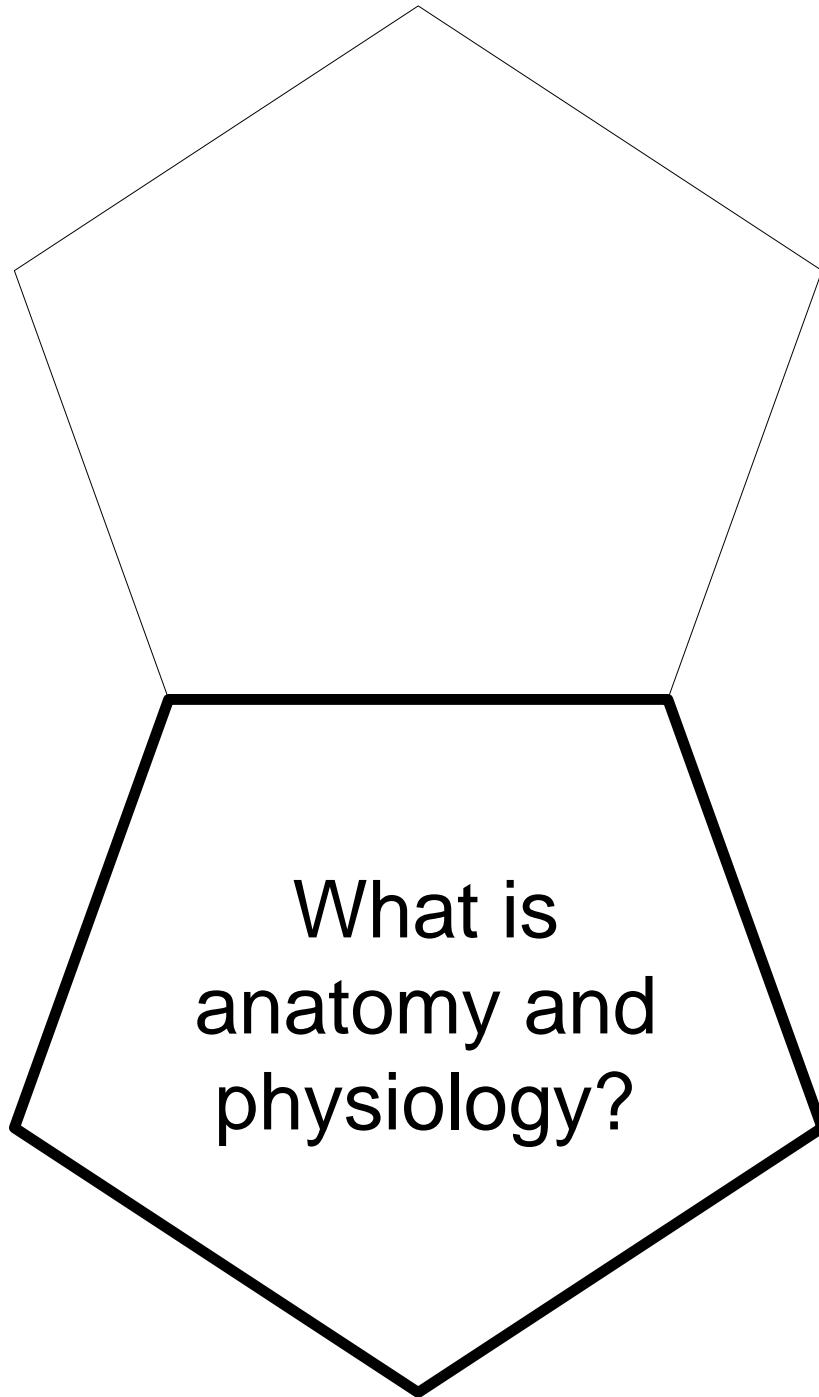
The Skeletal System



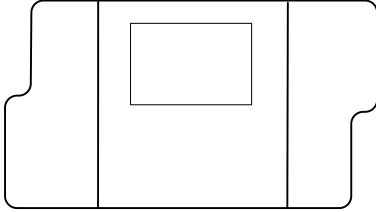
Lesson 1



Cut out as one piece. Hamburger fold on middle line. Glue into lapbook. **Read Introduction to Human Anatomy and Physiology, pages 19-20.** Inside the booklet, write the meaning of anatomy and physiology.

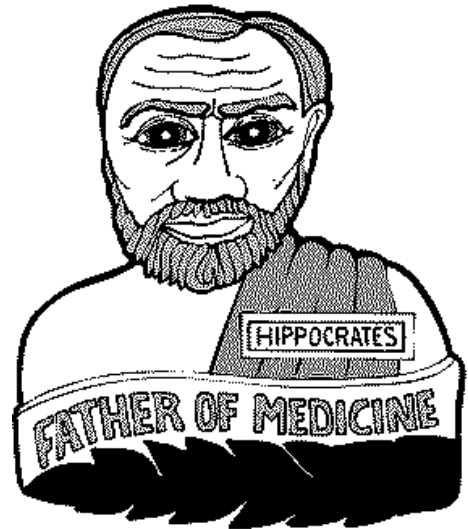


Lesson 1



(This section is rather lengthy. Depending on your child, you may need to do this activity over a 2-3 day period) Cut out the pieces. DO NOT CUT OFF TABS. Stack together and staple down the left side. Glue into lapbook. **Read History of Anatomy and Physiology starting on page 20 through Creation Confirmation, page 25.** Write what you learned from your reading about each topic.

History of Anatomy and Physiology

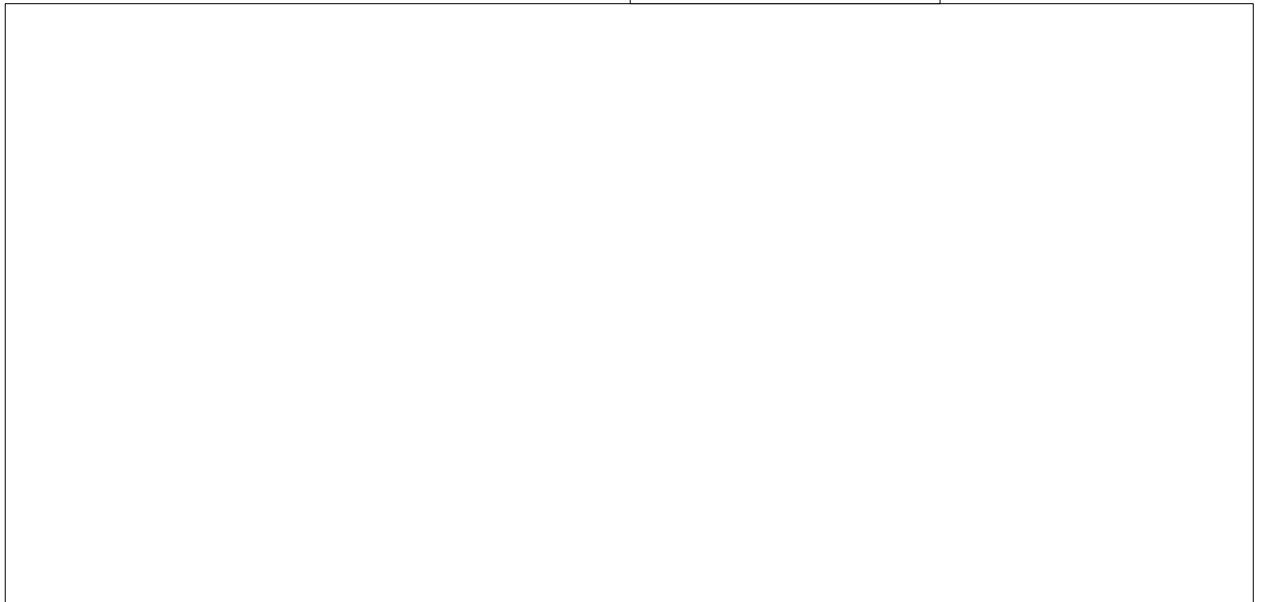


Ancient
Egyptians

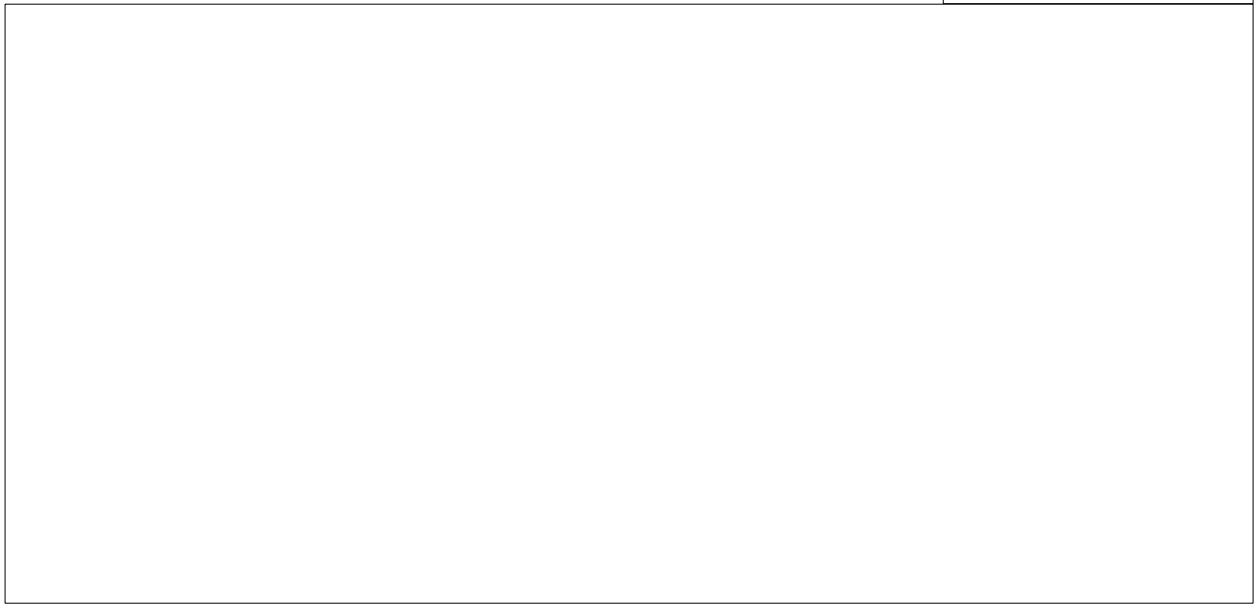
Ancient
Hebrews



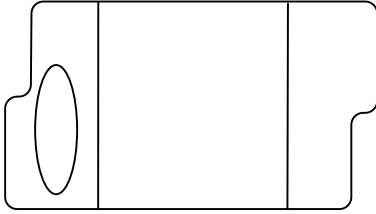
Ancient
Greeks



Ancient
Rome



Lesson 1



Cut out each piece. Stack on top of each other with the title piece on top. Attach at the top using a brass fastener or staple. Glue into lapbook. **Read European Scientists, pages 25-26.** Write something you have learned about each scientist listed.

European Scientists

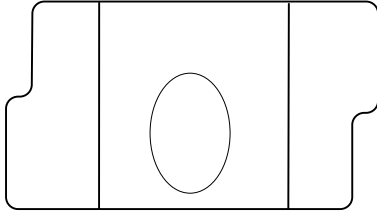


Andreas
Vesalius

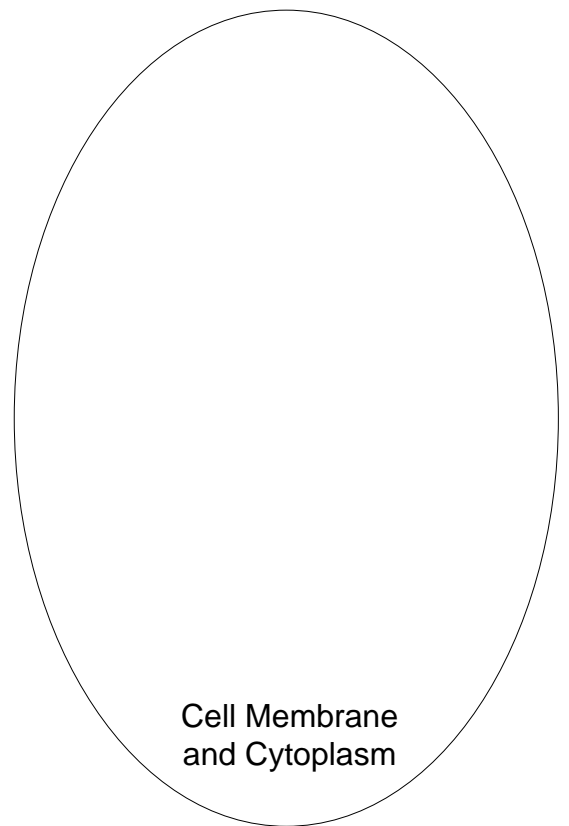
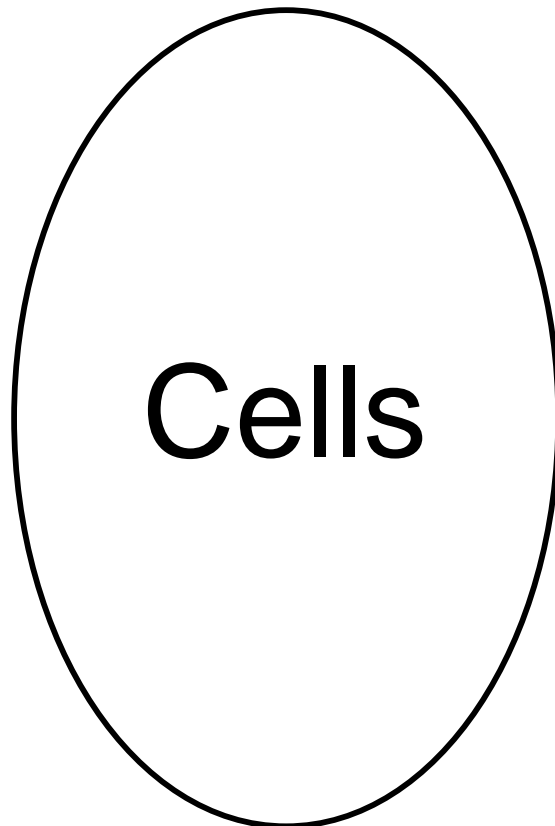
Anton
Van
Leeuwen-
hoek

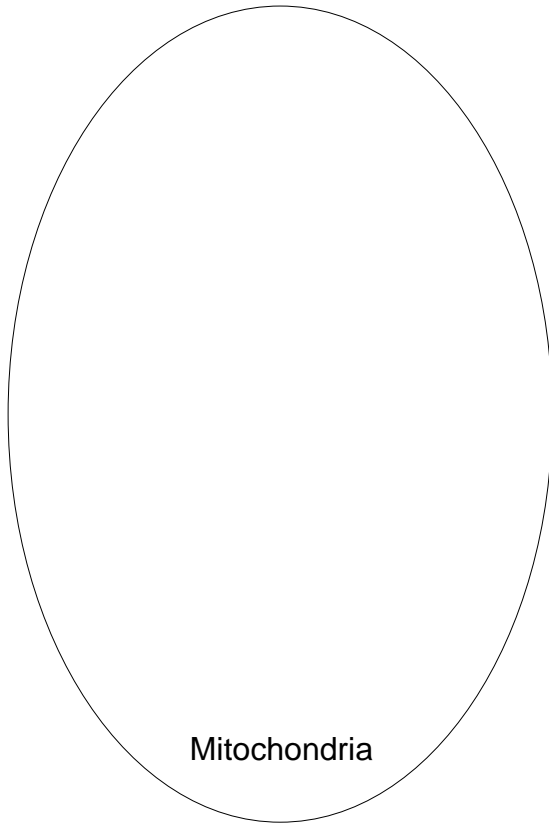
Robert
Hooke

Lesson 1

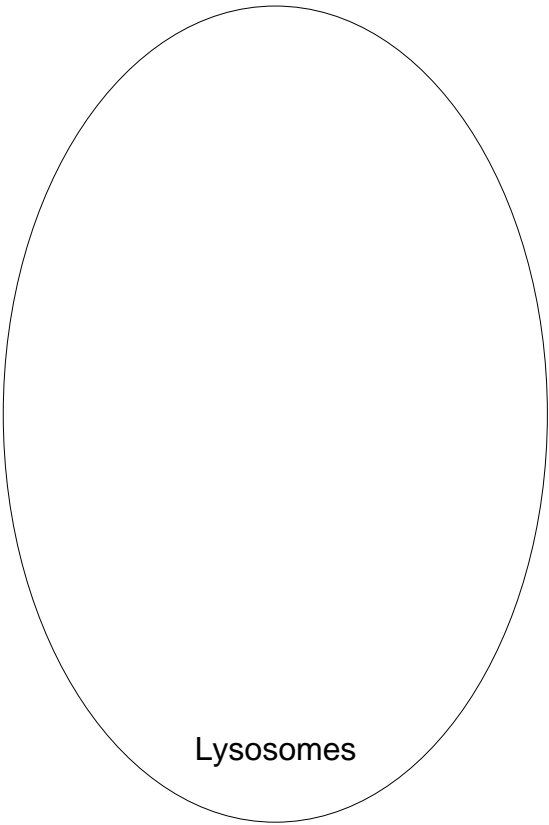


Cut out each piece on this page and the next two pages. Stack in this order-*Cover Page, Cell Membrane and Cytoplasm, Mitochondria, Lysosomes, Golgi bodies, Endoplasmic Reticulum, Centrioles, Nucleus, All Parts Together*. Staple at the top. Glue into lapbook. **Read from *Cells to The Nucleus Government*, pages 26-30.** Draw in the part of the cell as you read about it. On the back of each cell, write something you have learned about that part of the cell. Then on the last piece, draw all the parts of the cell together. *Make sure this piece is on the bottom of your stack!*

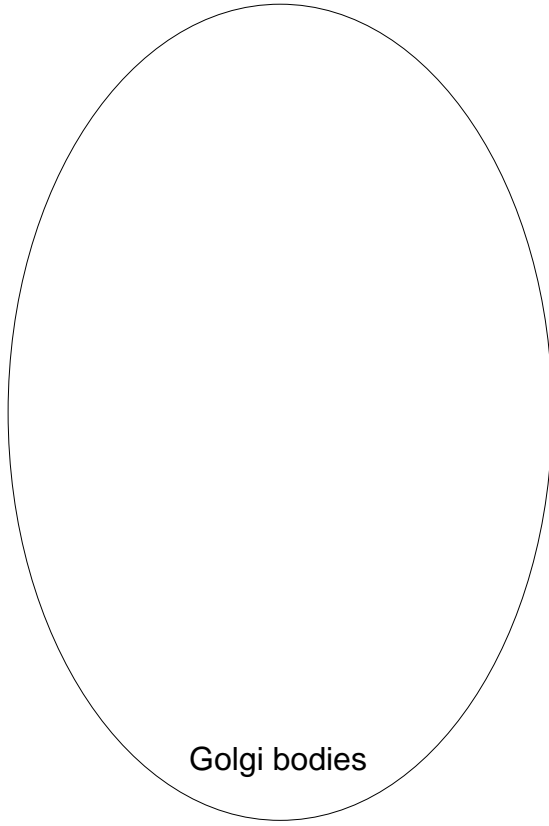




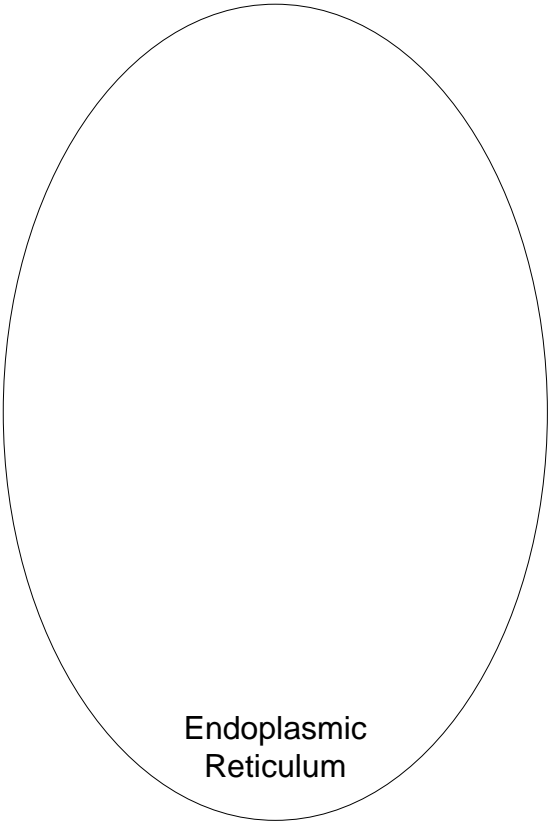
Mitochondria



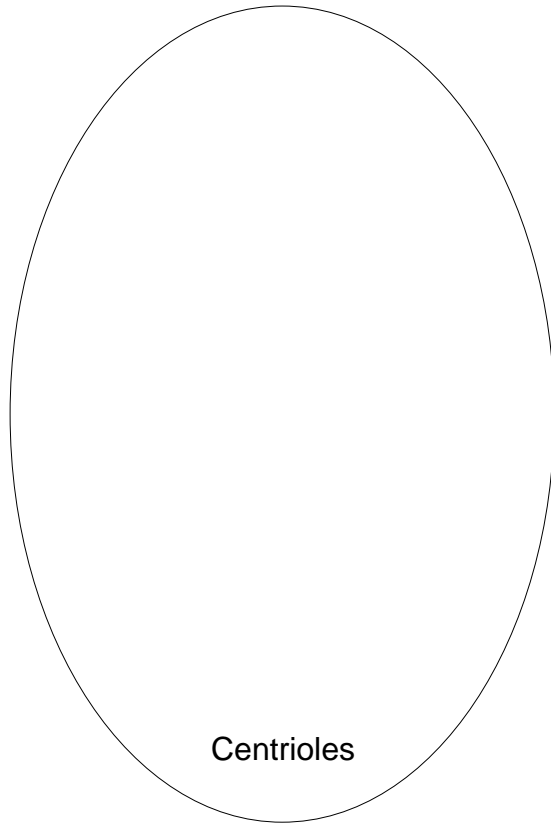
Lysosomes



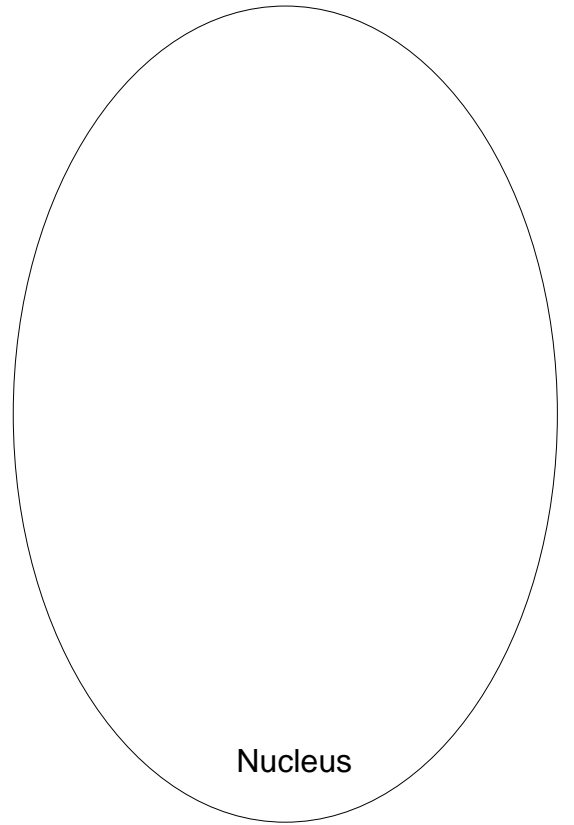
Golgi bodies



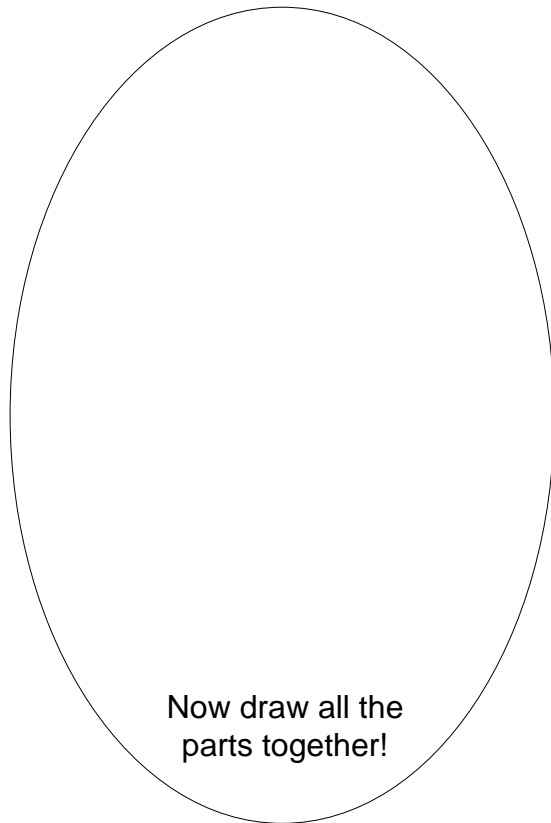
Endoplasmic
Reticulum



Centrioles

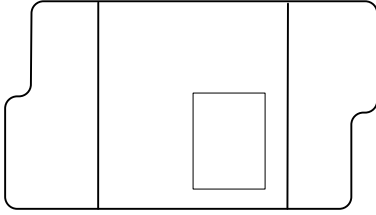


Nucleus

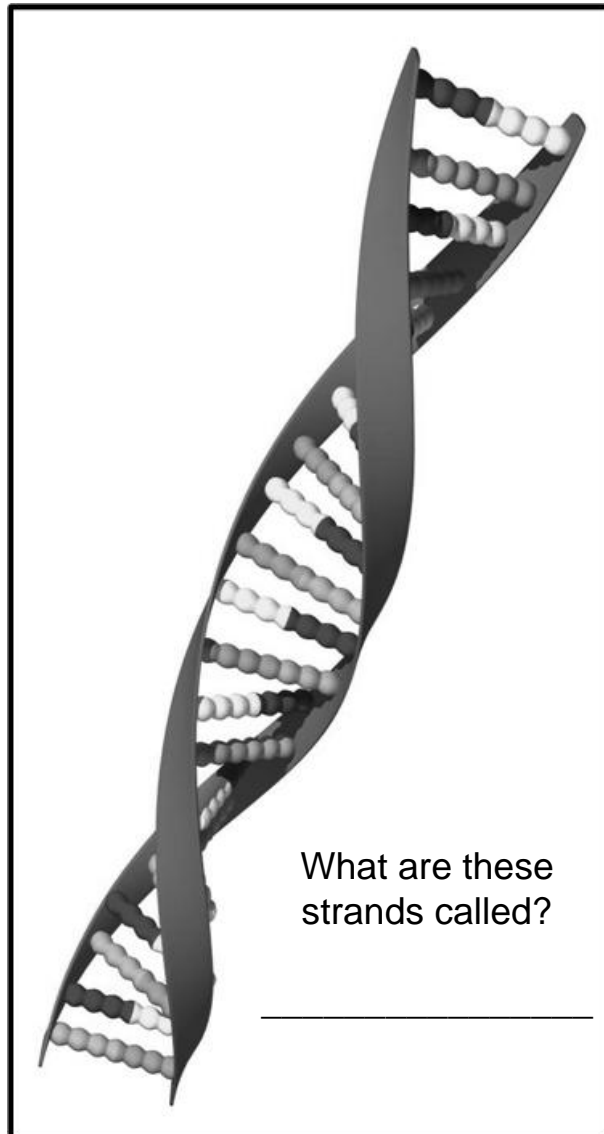


**Now draw all the
parts together!**

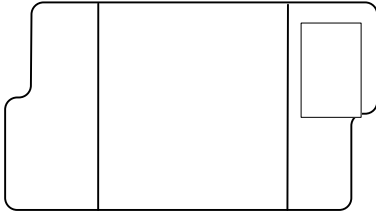
Lesson 1



Cut out around solid lines. Glue into lapbook. **Study the photo of the DNA on page 30.** Answer the questions on the booklet.



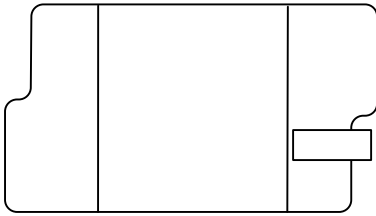
Lesson 1



Cut out and hotdog fold in the middle. Cut on the dotted line to make two flaps. Glue into lapbook. **Read Inside the Nucleus, pages 30-31.** Write something you have learned about DNA and RNA under the flaps.

	<p>Inside the Nucleus</p> <p>DNA</p>
	<p>RNA</p>

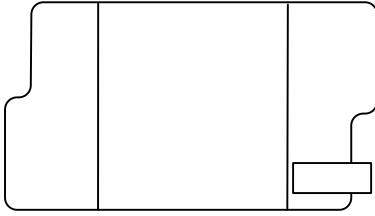
Lesson 1



Cut out and hamburger fold in the middle. Glue into lapbook. **Read Cell Creation, pages 31-33.** Answer the question inside the booklet.

How many cells does
your body have?

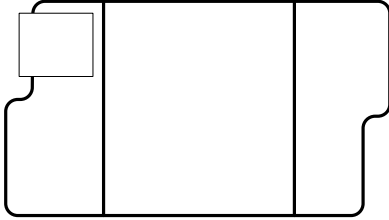
Lesson 1



Cut out as one piece. Accordion (fan) fold so that title is on top. Glue into lapbook. **Read Cell Creation, pages 31-33.** On the blank spaces, write a type of tissue.

Four Types Of Tissue

Lesson 2



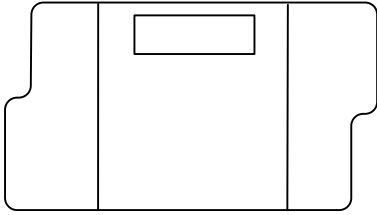
Cut out the booklet as one piece. Fold inward on the two lines. Interlock the two tabs to close. Glue into lapbook. **Read The Skeletal System What Do Bones Do, Got Blood, Warehouse Wonder, Bone Brawn, and Let's Get Moving, pages 37-40.** What are the things bones do for your body?

Bones Do?



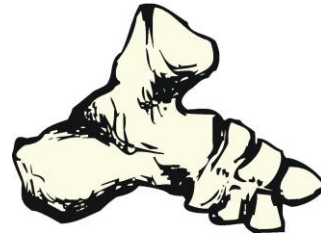
What Do

Lesson 2



Cut out each piece on this page and the next. Stack pieces together in order with the tabs sticking out. Staple on the left. Glue into lapbook. **Read Bone Anatomy, On the Outside, Made to Last, Bouncy Bone, and In the Marrow, pages 41-42.** Write down something interesting you learned about each part of bone anatomy.

Bone Anatomy



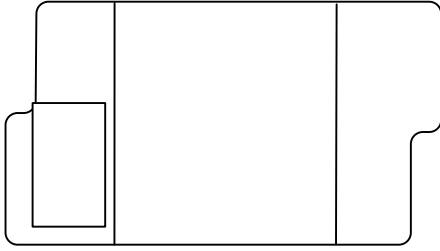
Periosteum

	Bone Marrow
--	-------------

	Spongy Bone
--	-------------

	Compact Bone
--	--------------

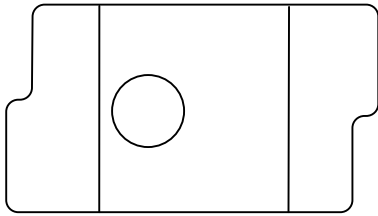
Lesson 2



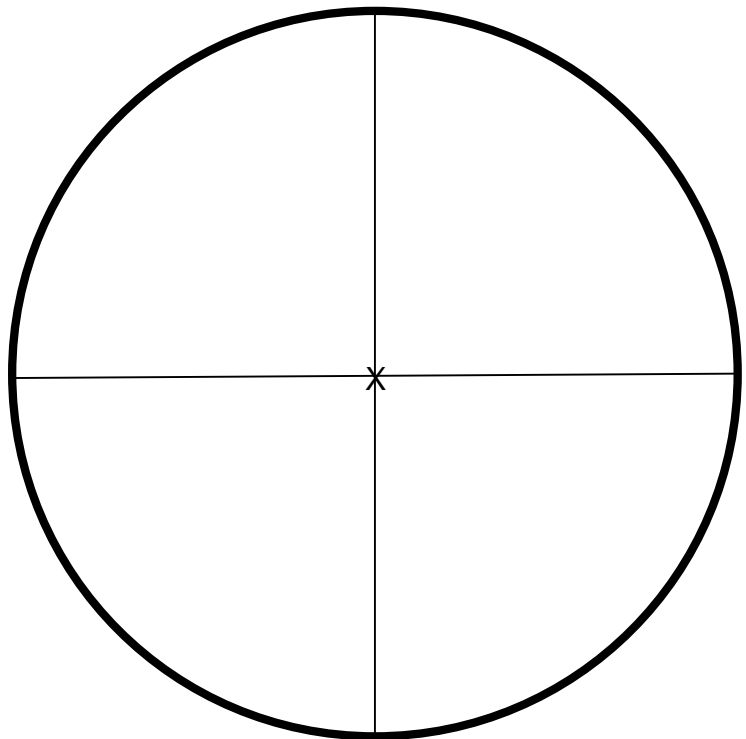
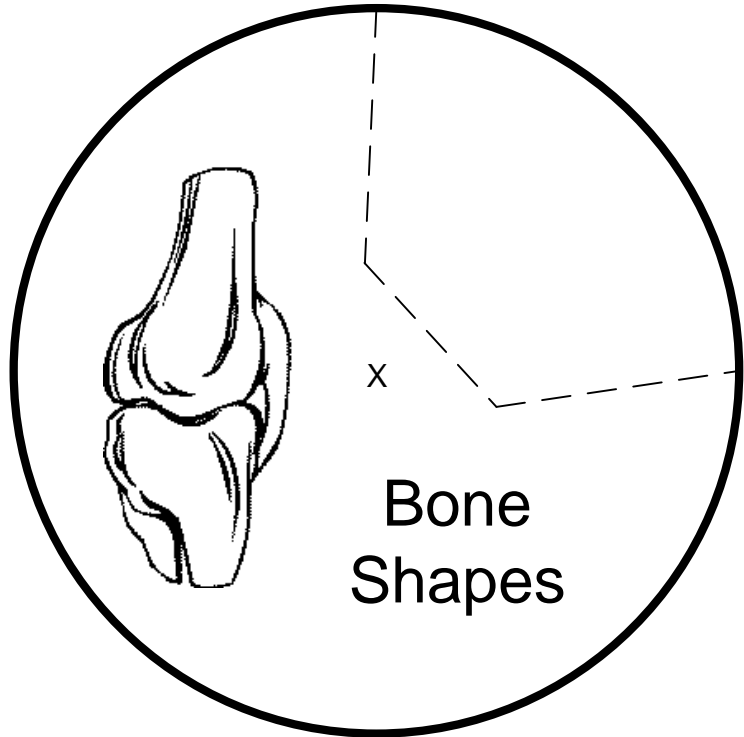
Cut out around the orange line. Glue into lapbook. **Read *Bone's a Growing, Deep and Wide and Broken Bones*, pages 42-44.** Using the illustrations on page 44, draw in each stage of a broken bone and the healing process.

Broken Bones	
Blood at the break	
Blood clot	
Callus	
Bone that has healed	

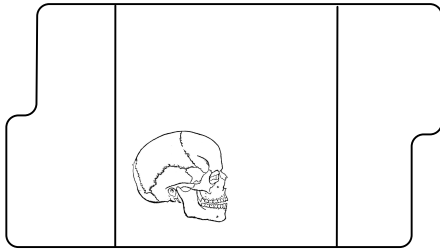
Lesson 2



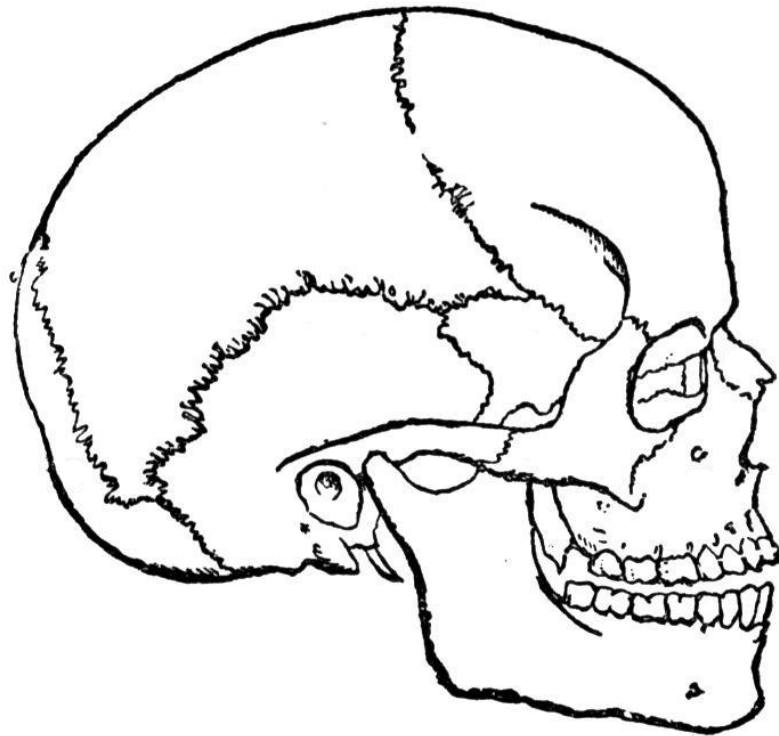
Cut out both circles. Cut out dotted wedge on title circle. Stack title circle on top of circle with wedges. Connect with a brass fastener in the middle so that "wheel" will turn. Glue into lapbook. **Read Bone Basics, Shapin' Up, Connect the Bones, and Ligaments, pages 45-46.** There are four shapes of bones mentioned in your reading. Write one kind of bone shape in each wedge.



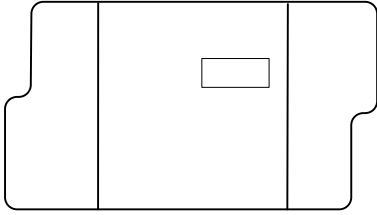
Lesson 2



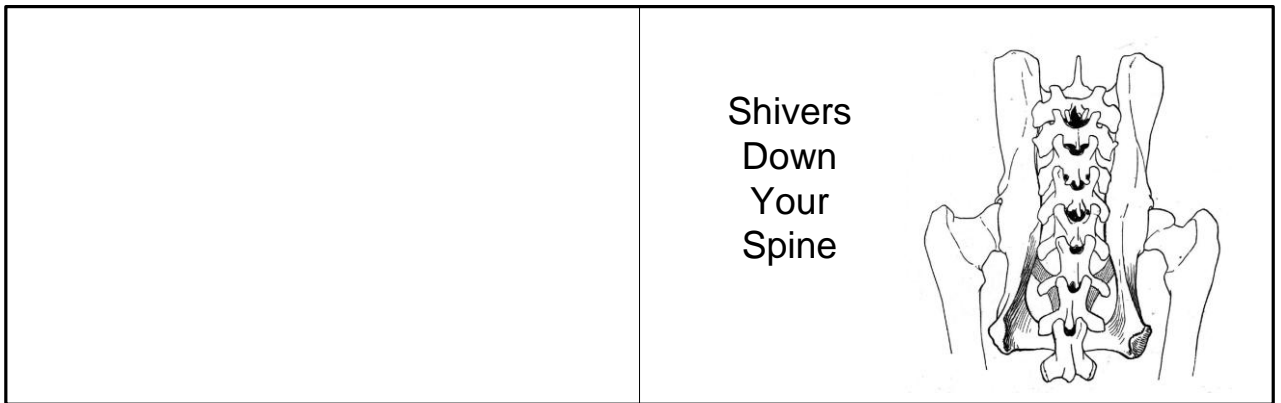
Cut out the cranium. Glue into lapbook.
Read A Head of the Game and Let's Face it, pages 46-47. Using the illustration on page 46, color in the parts of the cranium.



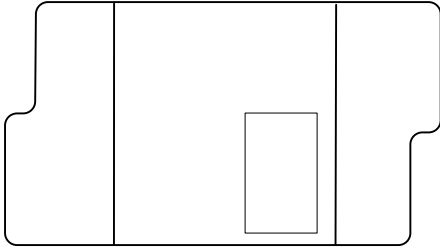
Lesson 2



Cut out as one piece. Hotdog fold on the middle line. Glue into lapbook. **Read Shivers Down Your Spine, page 47.** Inside of the booklet, list the 5 parts of the spine.

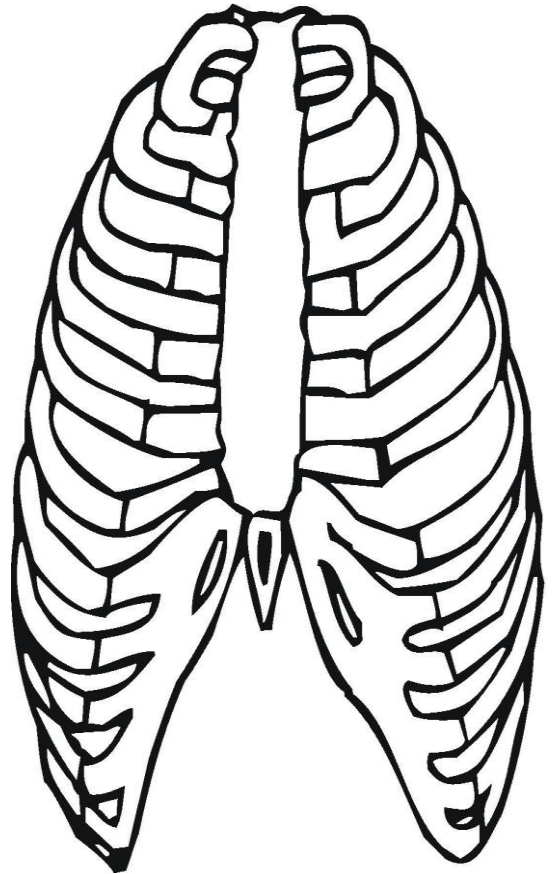


Lesson 2

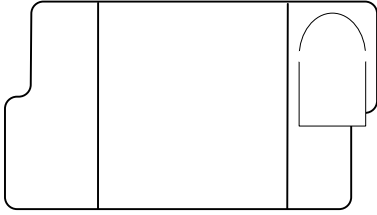


Cut out the booklet. Hotdog fold on the middle line. Glue into lapbook. **Read *Baby Back Ribs* and *A Peck of Peppers*, page 48.** Using the illustrations on page 48, color in the parts of the rib cage. Draw in and color the floating ribs, the clavicle, and the scapula. Inside of the booklet, make a color coded key.

Ribs



Lesson 2



Cut out booklet as one piece. Cut out the tabs and set aside. Fold on the lines so that with title on top. Glue a tab on each blank section of the booklet. **Read Armed and Dangerous, Girdles Around, and The Last Leg, pages 49-50.** Write the information in your booklet.

List the bones in your arm.

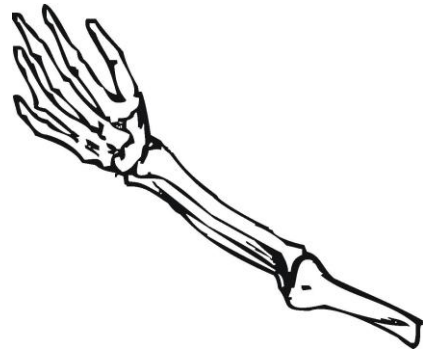
List the bones in your hand.

List the bones in your pelvic girdle.

List the bones in your leg.

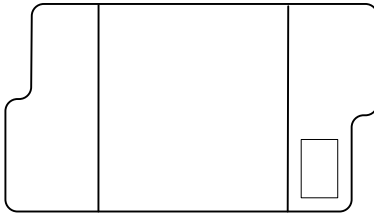
List the bones in your foot.

What is a long bone?

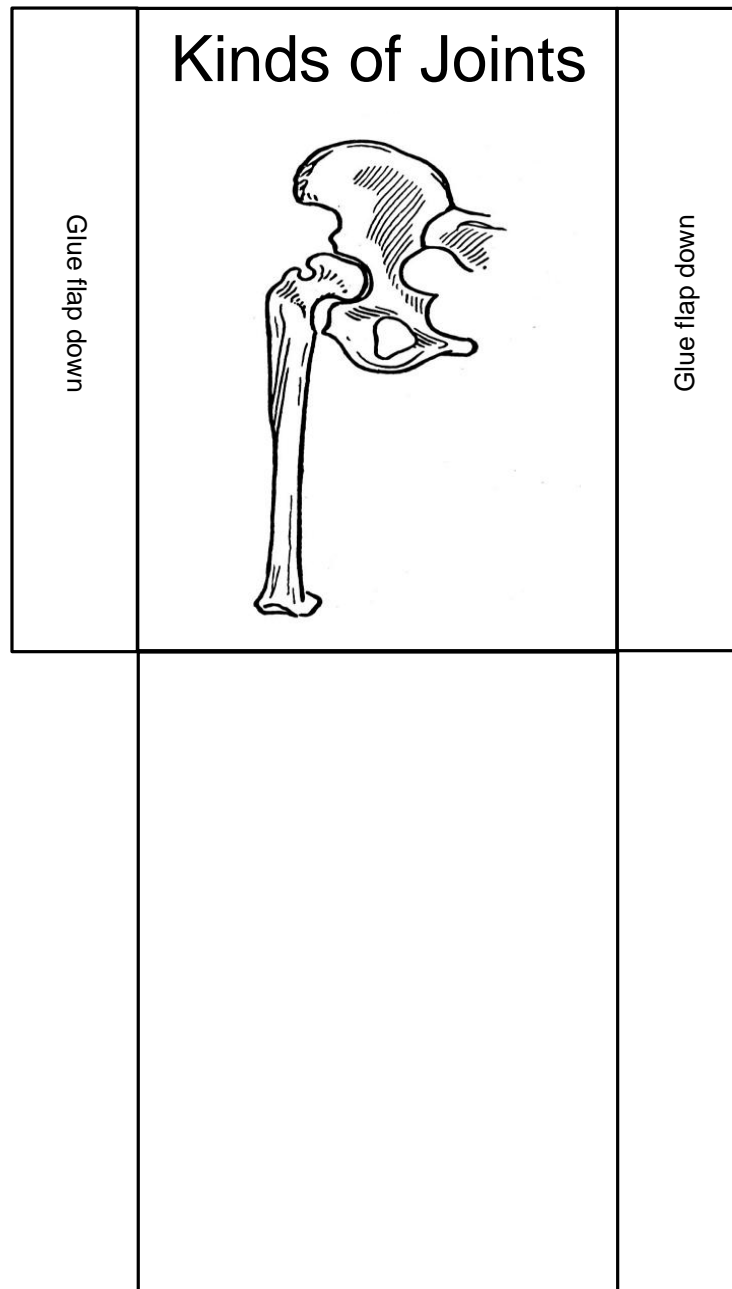


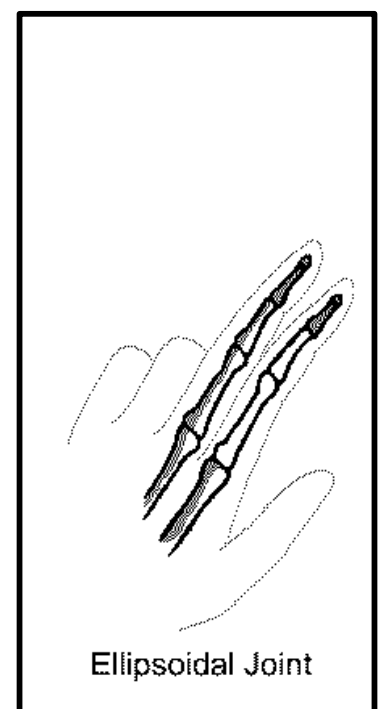
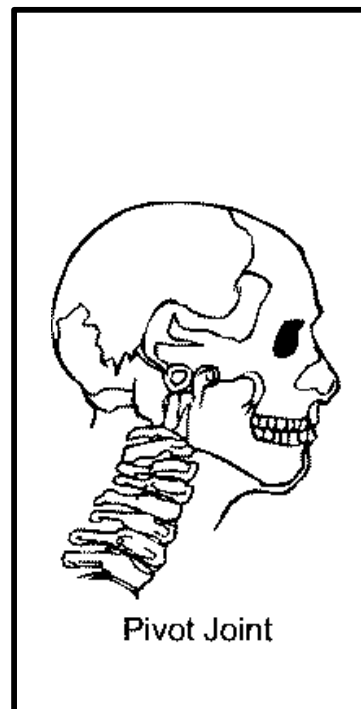
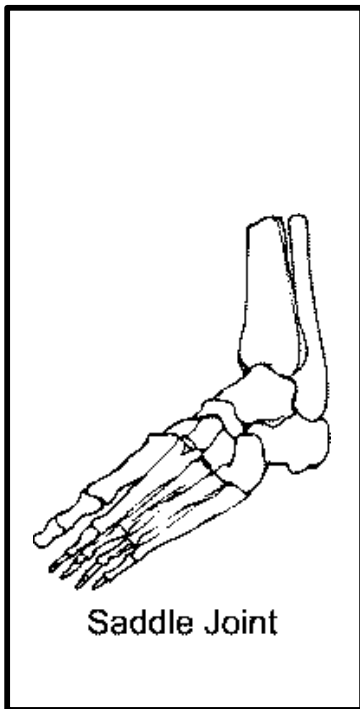
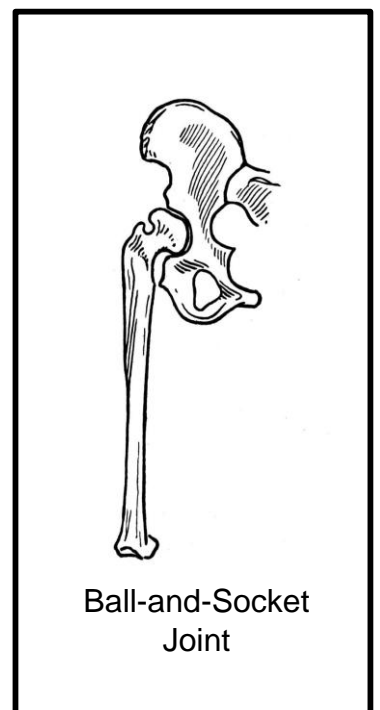
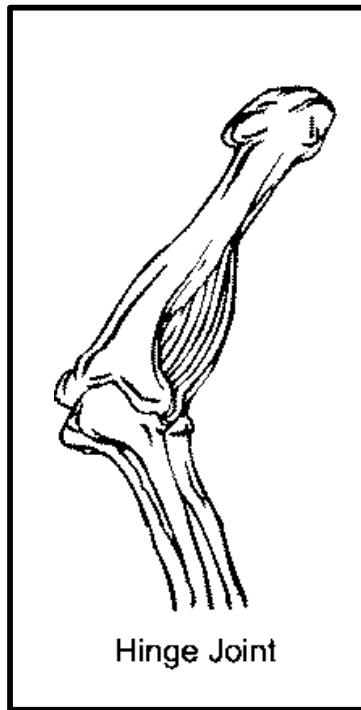
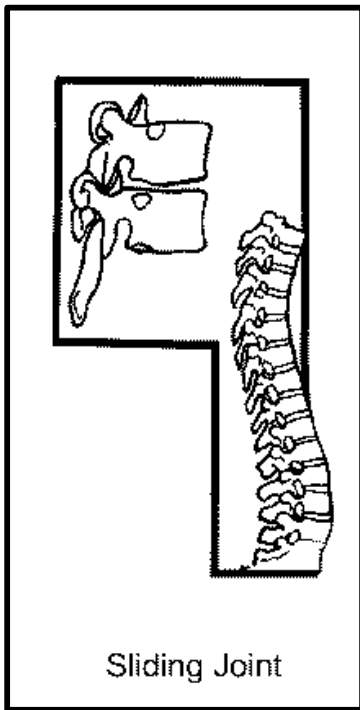
Arms and Legs

Lesson 2



Cut out the booklet as one shape. **DO NOT CUT OFF FLAPS.** Fold bottom square back, then fold back the two flaps over and glue. This will create a pocket. Glue into lapbook. Cut out cards from the next two pages. **Read Joint Venture and Kinds of Joints, pages 51-52.** Match the type of joint to its correct description. Store cards in pocket when not in use.





Answer Key

Lesson 1

What is anatomy and physiology- Anatomy is the study of the human body, all its parts, and how it's put together. Physiology is the study of how all those parts work. Page 19

History of Anatomy and Physiology- Answers will vary. Pages 20-25

European Scientists- Answers will vary. Pages 25-26

Cells-

Cell Membrane-Determines what can enter and leave the cell. Page 27

Cytoplasm-A jelly-like substance in which the organelles of the cell float. Page 27

Mitochondria-Power the cell by burning the fuel they get from the food we eat. Page 27

Lysosomes-Protects the cell and breaks down nutrients. Page 28

Golgi bodies-Stores chemicals and sends them where they are needed. Page 28

Endoplasmic Reticulum-Delivers chemicals to where they are needed and sends waste out of the cell. Page 29.

Centrioles-Helps cells make more cells. Page 29

Nucleus-The control center of the cell. Pages 29-30

What do you notice about the strands of color on the DNA- They have patterns (this is not mentioned here in the book. It is thrown in as an extra). **What are these strands called-** Nucleotides. Pages 30-31

Inside the Nucleus- Answers will vary. Pages 30-31

How many cells does your body have- Billions and billions. Page 31

Four Types of Tissue- nervous tissue, muscular tissue, connective tissue, and epithelial tissue. Pages 31-32

Lesson 2

What do bones do- Provide support, protect organs, make blood cells, store lipids and minerals, and allow movement. Pages 37-40

Bone Anatomy-Answers will vary. Pages 41-42

Bones Shapes- Long, Short, Flat, and Sesamoid. Page 45

Shivers Down Your Spine- Cervical, Thoracic, Lumbar, Sacrum and Coccyx. Page 47

Arms and Legs-

List the bones in your arm-humerus, radius, and ulna. Page 49

List the bones in your hand-phalanges, metacarpals, and carpals. Page 49

List the bones in your pelvic girdle-coxa, sacrum, and coccyx. Page 49

List the bones in your leg-femur, tibia, and fibula. Page 50

List the bones in your foot-phalanges, metatarsals, tarsals, and calcaneus. Page 50

What is a long bone-It is longer than it is wide. Page 49

Kinds of Joints-

Hinge-Elbow and knees. Page 51

Ball-and-Socket-Hips and shoulders. Page 51

Saddle- Ankle. Page 52

Sliding-Vertebrate. Page 52

Pivot-Where skull is connected to vertebral column. Page 52

Ellipsoidal-Phalanges to metatarsals. Page 52

Additional Resources

Most of these can be found at Christian Book Distributors (CBD)
www.christianbook.com

Uncover the Human Body- By: Luann Colombo

Help your children learn about the most complex machine in the universe---themselves! This fascinating hands-on 3-dimensional "model" offers an in-depth, page-by-page exploration of all the major systems and processes of the human body---and a picture of the whole creation when the book is closed. A fun way to explain a sometimes daunting subject! 16 pages, hardcover from Silver Dolphin.

The Best Book of the Human Body- By: Barbara Taylor

Young readers who are curious about their bodies will find all of the answers they need in this highly accessible book. Superb cutaway illustrations show clearly how the body systems work together to keep us alive, while expertly pitched text explains in simple terms how skin protects the body, how senses gather information, how a baby grows, and many other important functions. Tailored specifically for children, this is a fascinating introduction to human anatomy.

SomeBody: The Human Anatomy Game

Five human anatomy games designed for multiple level play. May be used as a puzzle to learn the location of human anatomy or for learning the names and functions of organs, muscles, and bones. Includes questions and simple experiments to enhance learning. Grade level: K-5.

GeoSafari Human Body Undercover

Unique three-dimensional science activity book allows kids to examine human anatomy systems with the turn of a page! Learn about internal structure and systems through a series of 3-D pages filled with fun and fascinating facts. Spiral bound book comes complete with colorful 10" skeleton and removable organs!

Human Skeleton Model

Build your knowledge of the human skeleton piece by piece! The assembled model stands 9.2" tall--perfect for learning about the basic elements of the human frame. 41 pieces with stand and assembly guide.

Anatomy Coloring Workbook-By: The Princeton Review

Color your way to a better understanding of Anatomy with this educational workbook; whether your students want a better understanding of the human body or are preparing for medical school, reinforce their basic anatomical understanding. Each topic includes a full-page discussion of the concept; highlighting the function of each part of the human body they're about to color. The skeletal, muscular, endocrine, circulatory, lymphatic, digestive, respiratory, urinary and reproductive systems are covered.

Enrichment Pages

Book Log- A fun place to keep up with extra reading!

Your child can do extra reading about the subjects and topics covered in the lapbook. As your child reads, write down the date, title, author and type of book it is on the Book Log.

Human Anatomy Book Report - Learn more about the human anatomy!

Let your child choose a body part or system. Find exciting books to read about it. After reading, have your child fill out the information about the book on the Human Anatomy Book Report.

What I Have Learned- Pages for narration

Your child will do one of these for every study guide, or depending on the level of the child, you may select only a few for your child to do. After reading the study guide, your child will narrate (tell orally) what he/she has learned. You will write it down or let the child write it down. There are two versions to choose from: Younger-includes a place to draw a picture. Older-for children who are capable of more writing and narration.

Book Log

- Biography
- Fiction
- Adventure
- Historical
- Nonfiction
- Science

Books I have read
about human anatomy
and physiology

DATE	Title & Author	Type of Book

Human Anatomy and Physiology Book Report Form

Title: _____

Author: _____

This book was about: _____

Something I learned that I didn't know before: _____

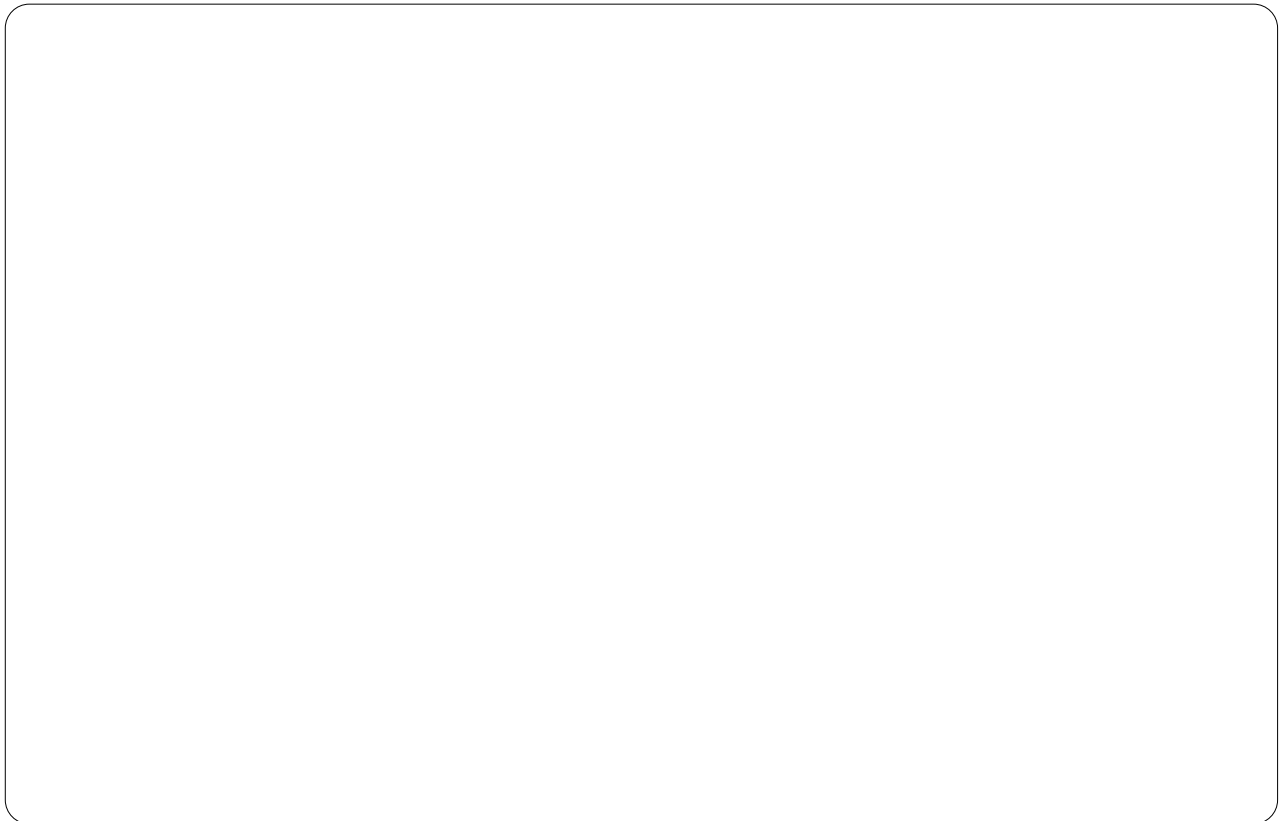
My drawing of the most interesting body part or system



Narration form for younger children

Today I learned about:

Draw picture of what you learned today



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- ~Paths of Exploration- Volume 2
- ~Paths of Settlement-Volume 1
- ~Paths of Settlement-Volume 2
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- ~Trail Guide to World Geography
- ~Trail Guide to Bible Geography
- ~Cantering the Country
- ~Gallop the Globe

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An Overview of the 18th Century

An Overview of the 19th Century

An Overview of the 20th Century

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- ~Westward Ho
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- ~Swimming Creatures of the Fifth Day
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Dinosaurs

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My Favorite Animal

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The Death and Resurrection of a King

The Parables of a King

The New Testament

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Easter

Spring

Autumn

Harvest Time

Wonderful Winter

Thanksgiving

The First Thanksgiving

Christmas

A Polar Christmas (Polar Express)

Mother's Memories

Johnny Appleseed

A Snowy Day

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Learning Basic Skills with Fruit

Me and my Body

All About Me

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