



SKELETAL SYSTEM



ALSO INCLUDES GOOGLE SLIDES

Special Needs for Special Kids



This unit was created with this guy in mind. He has autism and an intellectual disability. He is a non-reader, has a very short attention span, and struggles to sit still. With some support he is able to do this unit, and enjoys the challenge. He is my tester!!

Color version

Skeletal System Unit for Special Education

By
Christa Joy
Special Needs for Special Kids

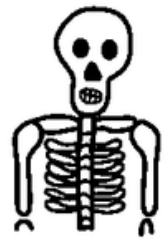


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Also included in this resource as separate files:

- Lesson plans
- Links and directions to digital activities
- PowerPoints (**these are the books in the lesson plans**)
- Voice recorded PowerPoint
- Activities in black and white

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This unit contains over **150 pages** of material plus **52 google slides**. I have included a detailed lesson plan to help you make the most of everything in this unit, including adding some group activities.

It comes in 2 separate files. One in color and one in black and white.

Skeletal System Lesson Plan

Preparation

- Print out a vocabulary board for each student to use throughout unit
 - Laminate or place in page protector
- Book
 - Print out, laminate, and bind
 - OR your students can listen to the pre-recorded version
- Vocabulary cards
 - Print out a set of cards onto cardstock and laminate
 - Make one set for each student and also one for the teacher to use in I Spy games

Preassessment (do day 1 before starting lesson)


- Choose the form of the assessment that best fits the learning level of your students
- Give the assessment to assess what your students may already know
- I cannot emphasize enough how important this step is. If you want to see growth, this preassessment is so important!!

Teaching Tips

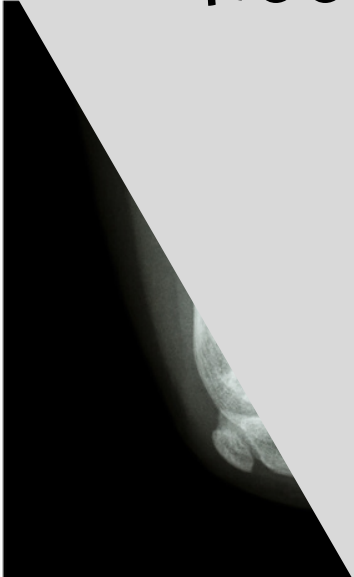
1. *Color Coding:* this is a really easy way to add more structure to a matching activity. Outline or color in an empty box or sorting label. Outline or color in the corresponding picture symbols the same colors. Becomes a color matching task.
 - a. For more info, read more here:
<https://specialneedsforspecialkids.org/2015/09/05/using-color-coding-for-differentiation/>
 - b. I also have a blog post on differentiating one activity 3 ways:
<https://specialneedsforspecialkids.org/2018/10/22/differentiating-1-activity-3-ways-easily-and-effectively/>
2. *Make you own copies of the activities:* Every day I review the activity we did yesterday. For that reason:
 - a. I often complete the activity myself and often laminated it for easy review that I could use year after year.
 - b. My copies were also helpful as either a model for students who needed more support or as a way for more advanced students to self-check their work.



The lesson plans contain:



Overall tips for teaching
students with significant
needs





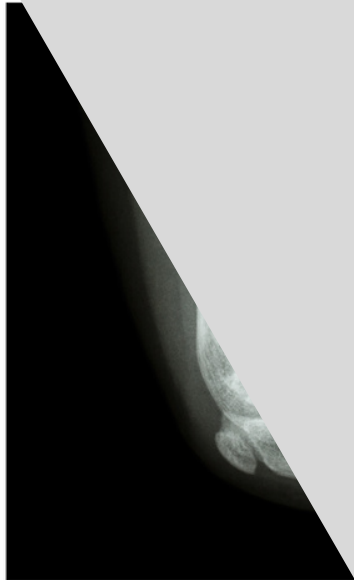
Quick Look

Day	Activity	Day	Activity
1	<ul style="list-style-type: none">• Book• Vocab cards introduction• Circle map	8	<ul style="list-style-type: none">• Book• Vocab cards activity• Sorting activity
2	<ul style="list-style-type: none">• Book• Vocab cards activity• Circle map	9	<ul style="list-style-type: none">• Book• Vocab cards activity• Sorting activity
3	<ul style="list-style-type: none">• Book• Vocab cards activity• Circle map	10	<ul style="list-style-type: none">• Book• Vocab cards cut and paste• Vocabulary puzzle
4	<ul style="list-style-type: none">• Book• Vocab cards activity• Labeling activity	11	<ul style="list-style-type: none">• Book• Vocab cards cut and paste• Vocabulary puzzle
5	<ul style="list-style-type: none">• Book• Vocab cards activity• Labeling activity	12	<ul style="list-style-type: none">• Book• Vocab cards activity• Close worksheet
6	<ul style="list-style-type: none">• Book• Vocab cards activity• Labeling activity	13	<ul style="list-style-type: none">• Book• Vocab cards activity• Close worksheet
7	<ul style="list-style-type: none">• Book• Vocab cards activity• Sorting activity	14	<ul style="list-style-type: none">• Assessment• Social Story



The lesson plans contain:


A quick look at what you will do each day





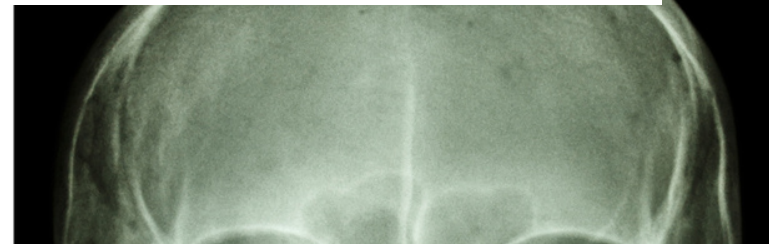
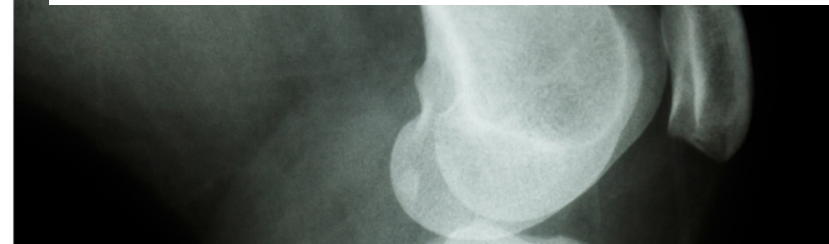
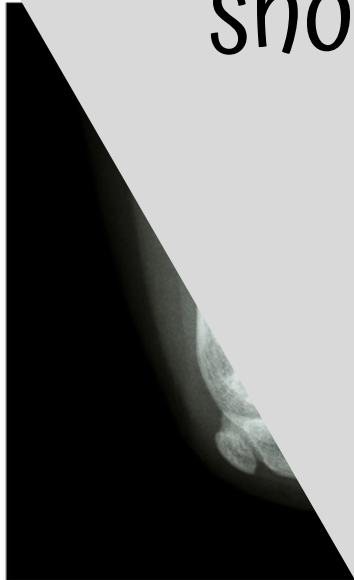
Day 6

Activity	Notes	Materials
Read or listen to a recording of the book (15 minutes)	<ul style="list-style-type: none">• Read through the story, asking lots of questions• Continue to make connections between book and vocabulary board	<ul style="list-style-type: none">• Book• Vocabulary board
Vocabulary cards Speed Matching (10 minutes)	<ul style="list-style-type: none">• place all the cards in the middle of the table• hold up a card, and the students race to find it in the pile in the middle of the table<ul style="list-style-type: none">◦ NOTE: for students with physical challenges, allow them to simply find the symbol on their board or communication device	<ul style="list-style-type: none">• Vocabulary cards (extra sets)
Labeling activity review (5 minutes)	<ul style="list-style-type: none">• Review the labeling activity completed yesterday	<ul style="list-style-type: none">• Labeling activity completed yesterday
Labeling activity (10 minutes)	<ul style="list-style-type: none">• Do the labeling activity: labeling main bones• Use color coding if needed• Make connections to the book as necessary	<ul style="list-style-type: none">• Labeling worksheet• Scissors• Glue
Sharing (10 minutes)	<ul style="list-style-type: none">• Each student shares their labeling activity with the group using the communication method of their choice	<ul style="list-style-type: none">• Completed worksheet• Communication devices



The lesson plans contain:

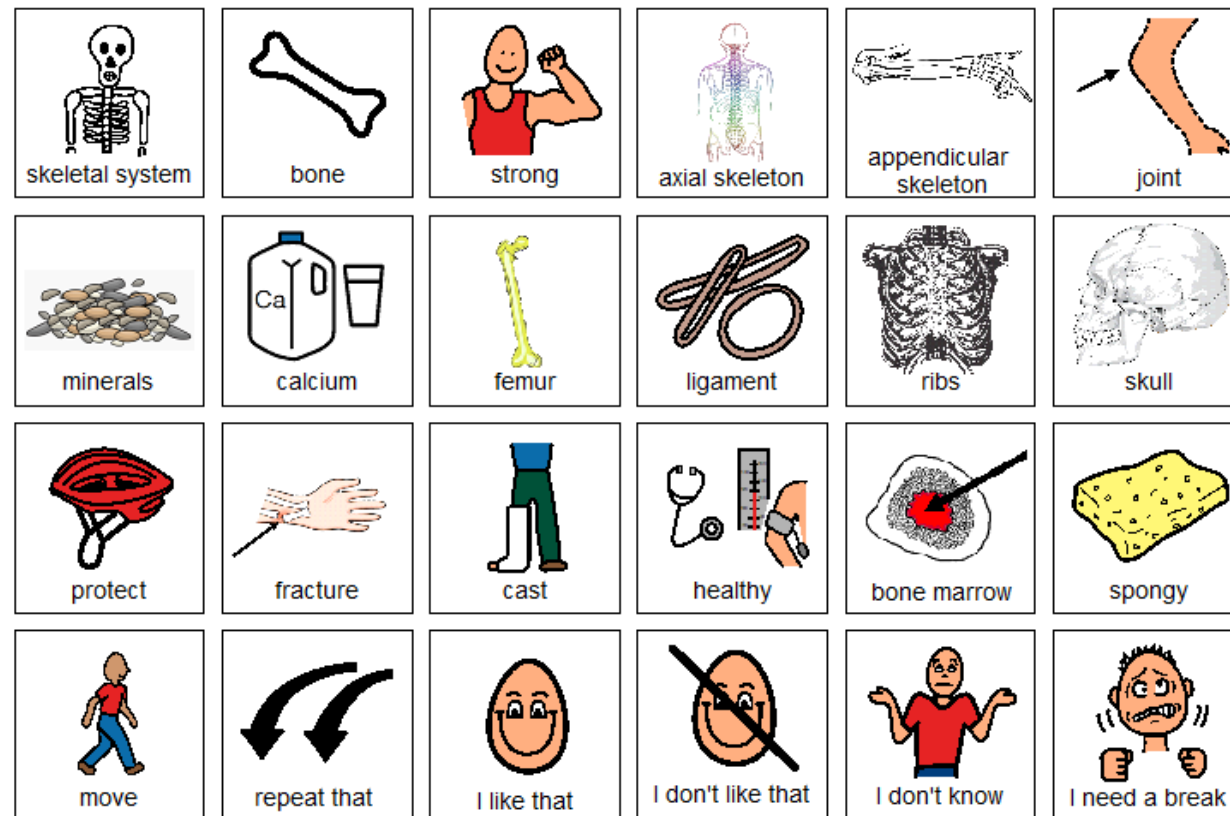
Detailed instructions on how that day's lesson should run



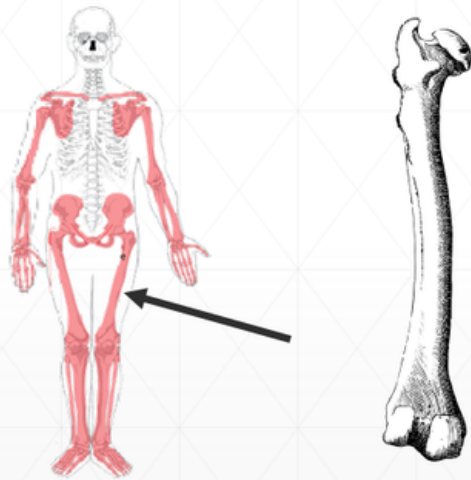
This unit comes with a vocabulary board.

Vocabulary boards are great for ALL students to assist with participation and engagement in group discussions.

Tips on how to use in the unit!!

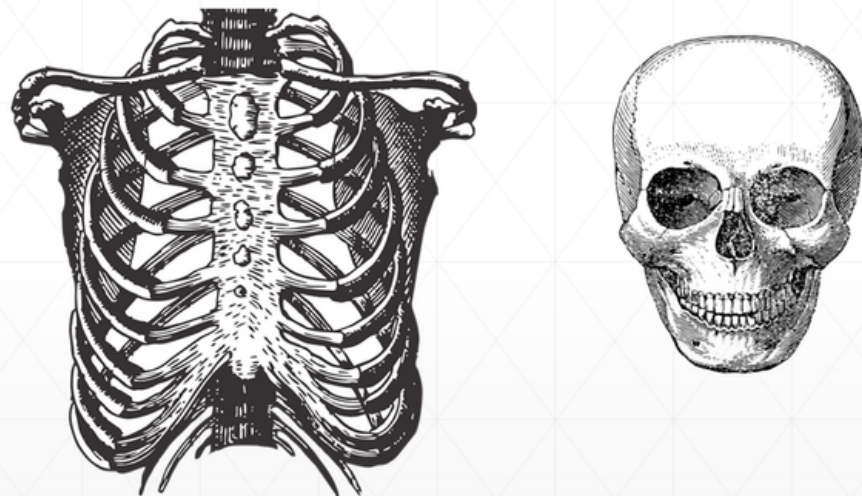


The longest bone in your body is in your leg, and called the **femur**.



©Christa Joy, SNSK

Your **ribs** protect your heart and lungs, and your **skull** protects your brain.



©Christa Joy, SNSK

There is a 43-page book with simple text and engaging photos.

It comes in a PowerPoint version as well as a voice-recorded PowerPoint (so you don't have to print it out.)

There is also a movie version you can use in google slides.

You should eat 2-3 servings of dairy every day to get enough calcium to keep your bones strong.



©Christa Joy, SNSK

Vitamin D is something you actually get when you are outside in the sunshine.



©Christa Joy, SNSK

There is a 17-page social story with simple text and engaging photos about strong bones.

It comes in a PowerPoint version as well as a voice-recorded PowerPoint (so you don't have to print it out.) There is also a movie version you can use in google slides.

skeletal system

Your bones, ligaments and teeth make up this system.



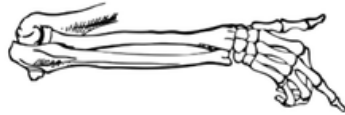
axial skeleton

Made of ribs, vertebrae, and skull and are important in helping you stand up straight and protects your organs.



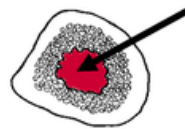
appendicular skeleton

Made up of bones in your arms, legs, hands and feet and help you move around.



bone marrow

Jelly-like substance in the middle of the bone that makes red and white blood cells.



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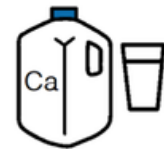
minerals

Substances stored in bones that are released into the blood stream.



calcium

Mineral that keeps bones strong and help fight off viruses.



femur

Bone in the appendicular skeleton and is the longest bone in the body.



ligament

Strong cord or band that connects 2 bones together.



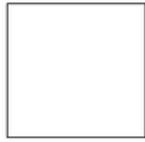
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There are 16 vocabulary cards that come in color and black and white.

Included are suggestions for group activities to do with these each day.

ribs

Bones in the axial skeleton that protect your heart and lungs.



skull

Bone in the axial skeleton that protects your brain.



joint

Where 2 bones come together and allow them to move.

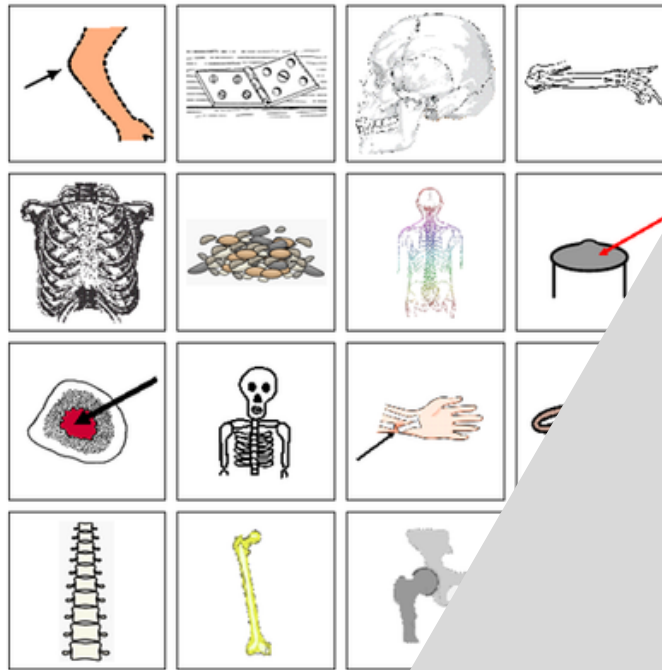


cartilage

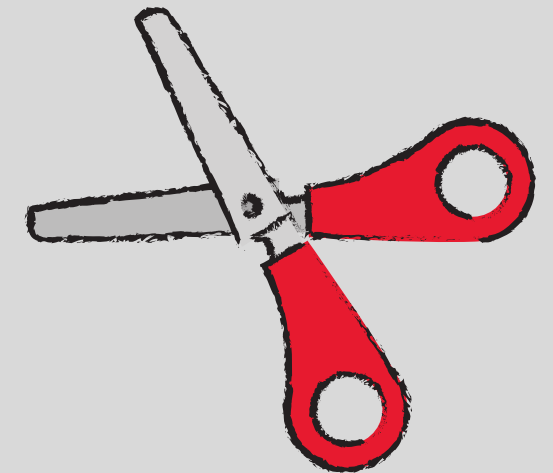
Strong covering on the ends of bones where they come together in a joint.



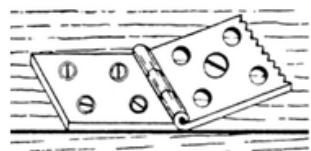
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There is an activity where students will match either the picture to the definition or the definition to the picture (harder).



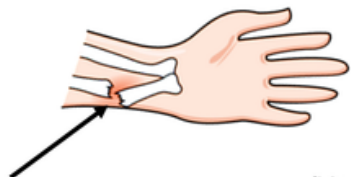
hinge joint



ball & socket joint



fracture



vertebrae



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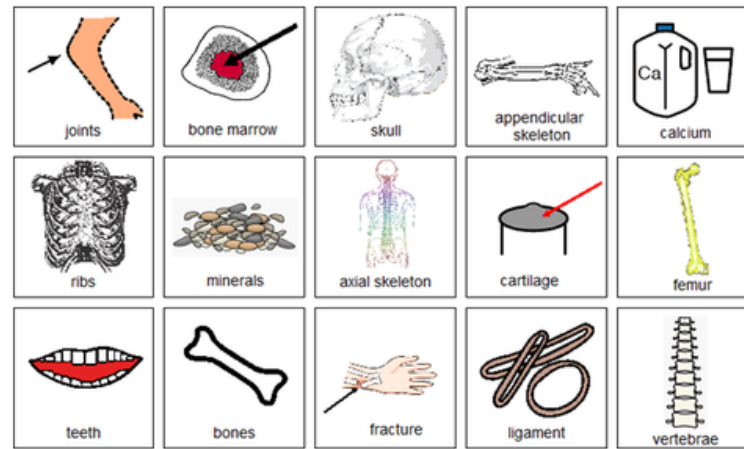
Strong cord or band that connects a muscle to a bone.	Bones in the axial skeleton that protect your heart and lungs.
Joint where one bone is the shape of a ball and one bone is a cup. Allows movement in many directions. Examples are hips and shoulders.	Bone in the axial skeleton that protects your brain.
Jelly-like substance in the middle of the bone that makes red and white blood cells.	Bones in the appendicular skeleton. It is the longest bone in the body.
Strong covering on the ends of bones where they come together in a joint.	Substances stored in bones that are released into the blood stream.
Your bones, ligaments and teeth make up this system.	

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Skeletal System

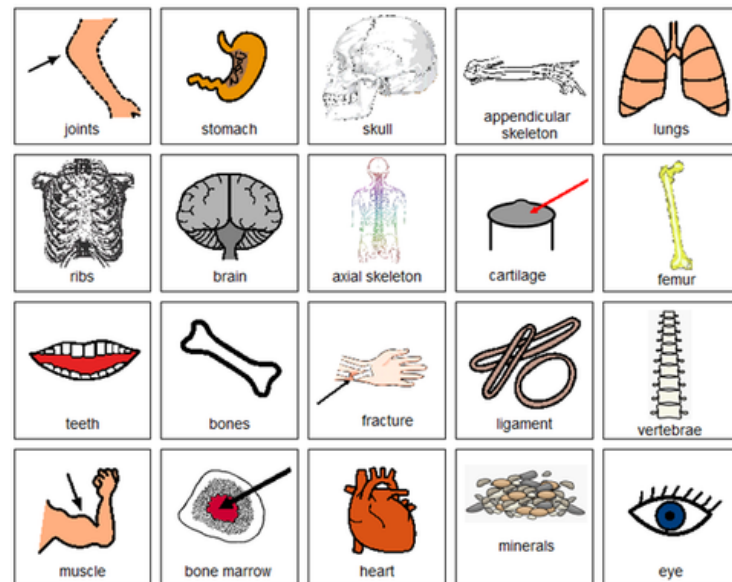
Errorless version

Place the following in the circle map on previous page.



Skeletal System

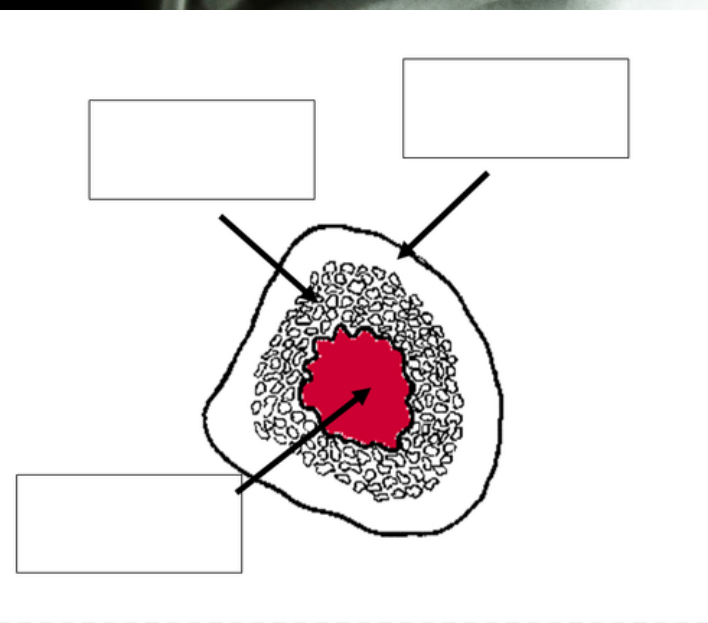
Place the following in the circle map on previous page
ONLY IF correct.



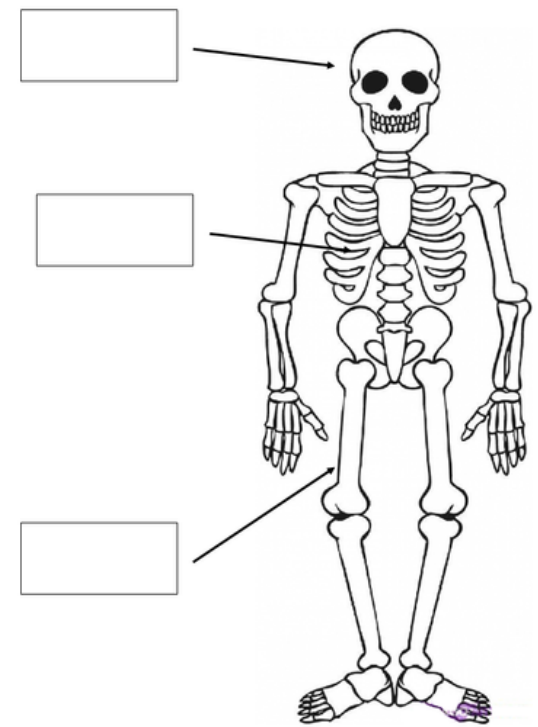
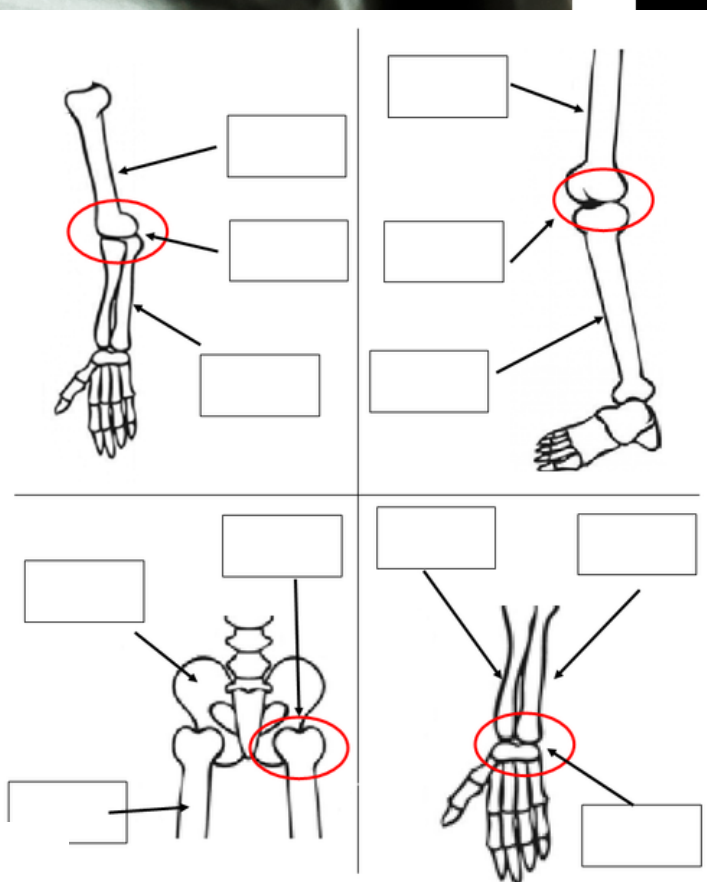
There are 3 circle maps reviewing the different parts of the skeletal system.

Circle maps are a great way for students to see the concept at a glance. There are 2 versions:

- One is errorless
- One has wrong answers mixed in students will have to set aside



Spongy, light weight layer	Bone marrow	Hard outer, protective layer
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Labels for *previous* page

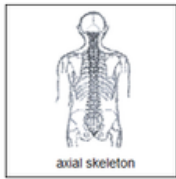
bone	bone	bone	bone
bone	bone	bone	bone
joint	joint	joint	joint

Labels for *next* page

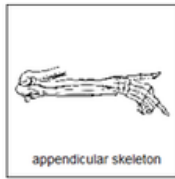
skull	ribs	femur
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Students label parts of the skeletal system. Suggestions for differentiation and answer keys are included.

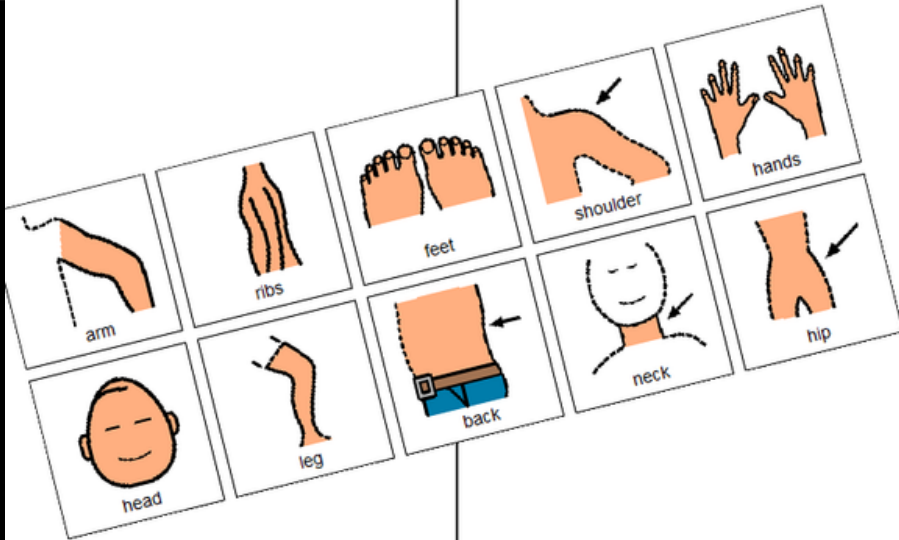
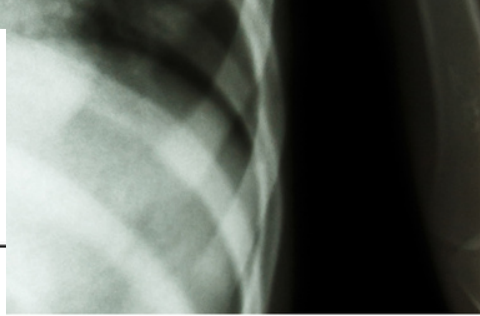




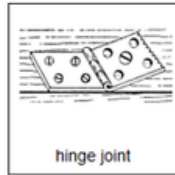
axial skeleton



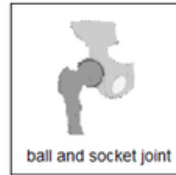
appendicular skeleton



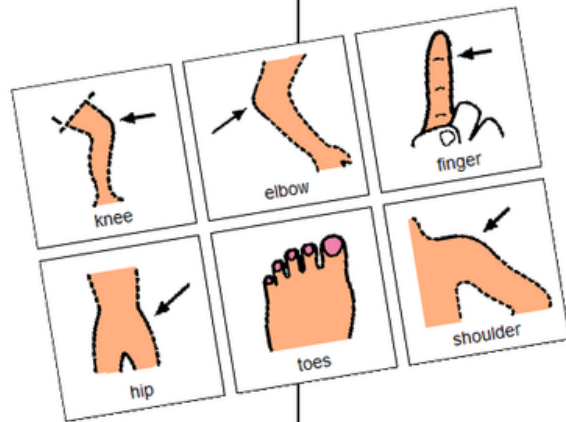
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hinge joint

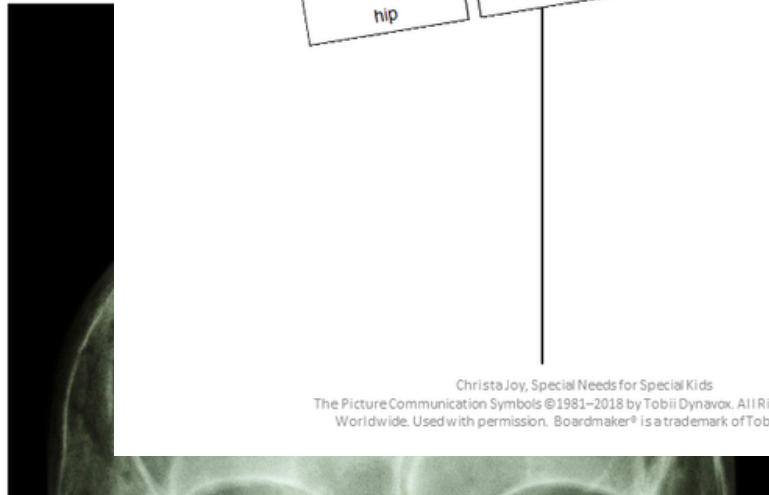


ball and socket joint


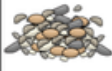















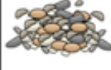




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There are 3 sorting activities. Suggestions for differentiation and answer keys are included.



Skeletal System

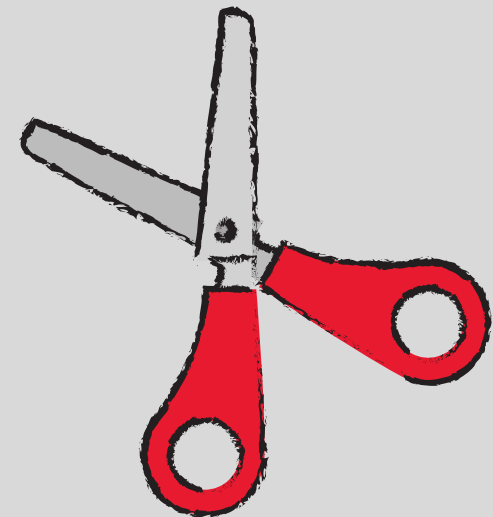
		 ribs	 minerals	 calcium	
		 calcium	 femur		
 skull	 minerals	 ligament	 calcium	 femur	
 calcium		 femur	 skull		 minerals
 ligament					
 ribs	 femur	 minerals		 skull	 calcium

Skeletal System

 ribs		 ligament	
	 skull	 ribs	
 skull	 ligament	 femur	
 femur		 skull	

There is a Sudoku puzzle in this unit as well. This is a great way to work with the new vocabulary!!




There are 2 versions plus answer keys.



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Place the following images in the empty squares on the previous page, completing the sudoku puzzle.

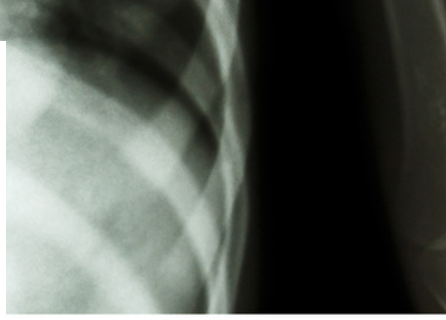
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 minerals	 minerals	 calcium	 femur
 femur	 ligament	 ligament	 ligament
 ligament	 ribs	 ribs	 ribs
 ribs	 skull	 skull	 skull

Skeletal System

S Q I I M W F E M F X L N V X N X I U Z
 P V E R T E B R A E G F C X A O P D D Y
 Y J S A M L N M T H F E M U R U T S O E
 K B R P X T B G F K H U A O Y E U N M H
 C R W P C A L C I U M Y L I G A M E N T
 O C S E K L D K T W G A F D N C Z L P N
 O T X N I G E O W C A R T I L A G E P K
 B B J D X U Y K L G B M H E Z S A D E Y
 A A R I M E H C L E A G P Z K K Q A X X
 O A I C I M R S I L G N E G W E X W J N
 Z L B U N N W K F N W N F Z P L A I O Z
 X H S L E X E U Y Z I J R B W E P W I J
 D V O A R I E L Z F F D A P X T V S N G
 L J L R A B G L K M X R C M L A F O T N
 H K D A L A X I A L H N T I L L Y N Q H
 Q M C Q S T B U K G K L U L Z T J T F J
 O I R E Q T H C P K M Z R V V T Z G O R
 M C M W R S T F Q T E O E S O C Q R Y K
 G S K M W Z U L D P I Y F V G J N E W M
 S O T A U A X L V N X B N V F C S E Q I

- | | | | |
|--------------|-----------|-----------|----------|
| appendicular | cartilage | vertebrae | Skeletal |
| minerals | ligament | fracture | calcium |
| axial | femur | skull | joint |
| ribs | | | |

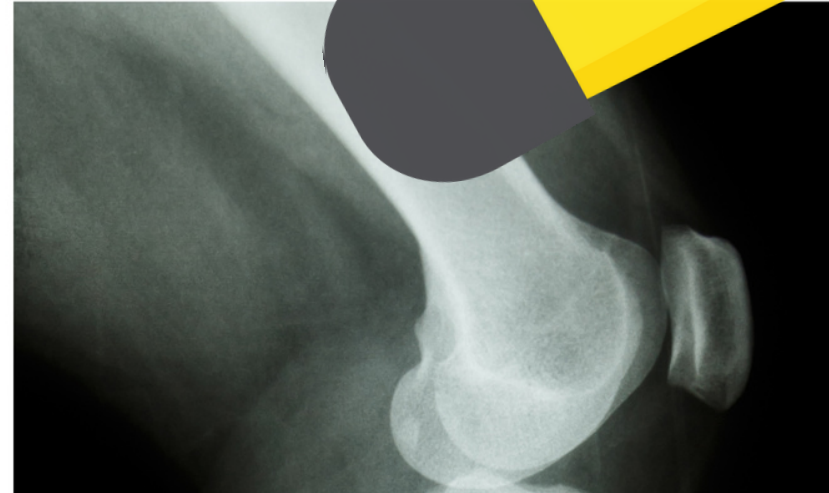
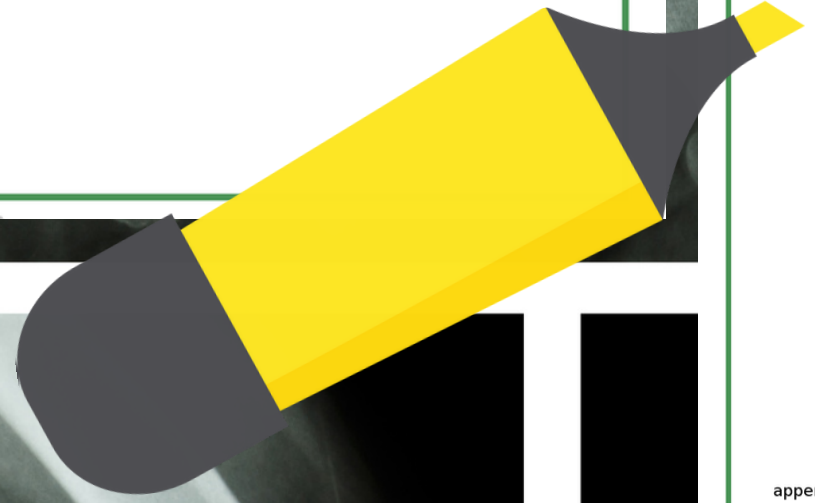


There is also a word search to work with vocabulary. If your students cannot do a word search, have them highlight the circle words on the answer key.

Skeletal System

S O I I M W F E M F X L N V X N X I U Z
 P V E R T E B R A E G F C X A O P D D Y
 Y J S A M L N M T H F E M U R U T S O E
 K B R P X T B G F K H U A O Y E U N M H
 C R W P C A L C I U M Y L I G A M E N T
 O C S E K L D K T W G A F D N C Z L P N
 O T X N I G E O W C A R T I L A G E P K
 B B J D X U Y K L G B M H E Z S A D E Y
 A A R I M E H C L E A G P Z K K Q A X X
 O A I C I M R S I L G N E G W E X W J N
 Z L B U N N W K F N W N F Z P L A I O Z
 X H S L E X E U Y Z I J R B W E P W I J
 D V O A R I E L Z F F D A P X T V S N G
 L J L R A B G L K M X R C M L A F O T N
 H K D A L A X I A L H N T I L L Y N Q H
 Q M C Q S T B U K G K L U L Z T J T F J
 O I R E Q T H C P K M Z R V V T Z G O R
 M C M W R S T F Q T E O E S O C Q R Y K
 G S K M W Z U L D P I Y F V G J N E W M
 S O T A U A X L V N X B N V F C S E Q I

- | | | | |
|--------------|-----------|-----------|----------|
| appendicular | cartilage | vertebrae | Skeletal |
| minerals | ligament | fracture | calcium |
| axial | femur | skull | joint |
| ribs | | | |



Skeletal System

1. There are over bones in your body.
2. When you raise your hand, you use bones in your .
3. protects your brain.
4. is where 2 bones come together and bend.
5. Stand up tall uses your .

The Picture Commun
Worldwide. Used

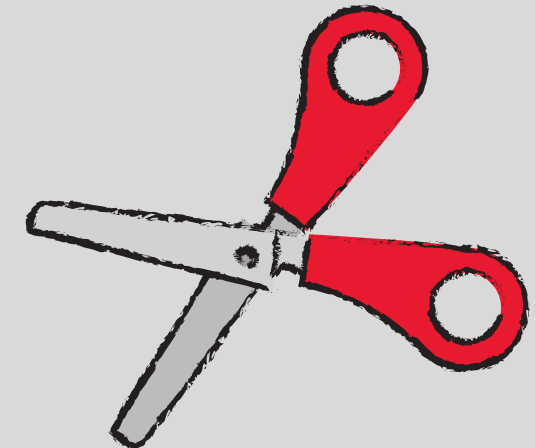
Use either pictures or words to complete the sentences on the previous page.

Skeletal System

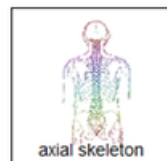
6. When you break a bone, it is called a .
7. The layer of the bone is flexible and light.
8. Bones store and release them when needed.
9. The longest bone in your body is .
10. Dairy products contain strong bones. that is important.

For Special Kids
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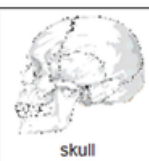
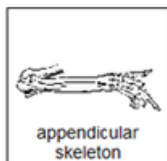
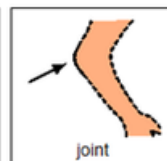
There are 2 fill-in-the-blank worksheets. These allow you to review and focus on facts from the book and identify areas for review prior to the assessment.



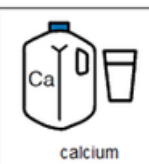
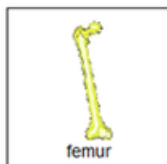
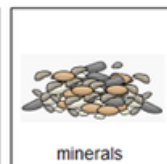
Page 1



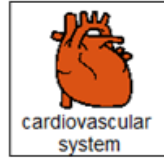
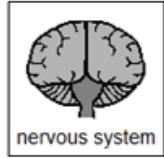
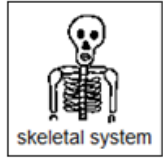
200



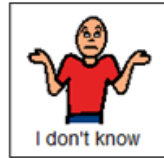
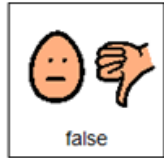
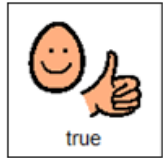
Page 2



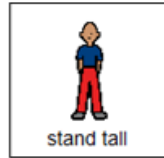
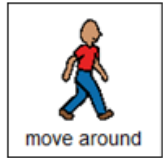
1. What is the name of system that is made up of bones, teeth, ligaments and cartilage?



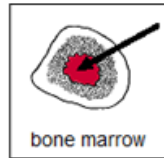
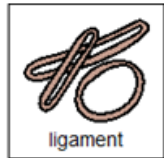
2. True or False. Your bones continue to repair themselves.



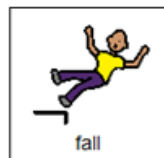
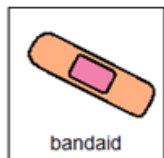
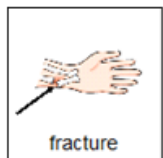
3. The main function of the axial skeleton is:



4. The inside of the bone contains:



5. Sometimes bones break. This is called a:



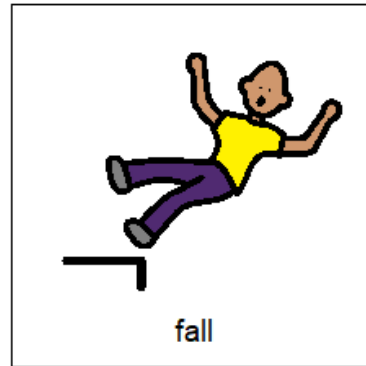
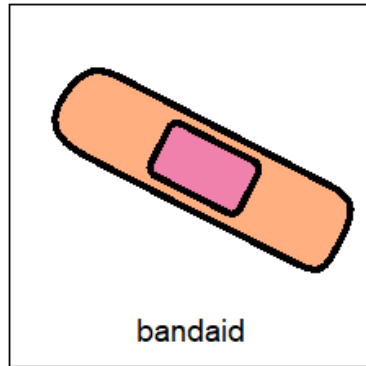
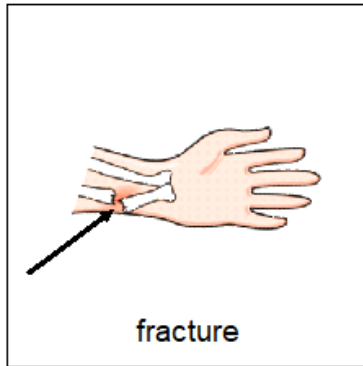
There is a 10 question assessment.

There are 3 versions. This version has 10 questions with 3 picture choices for each question.

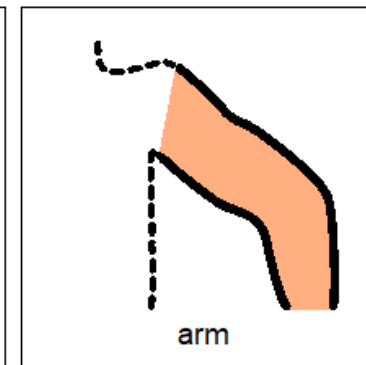
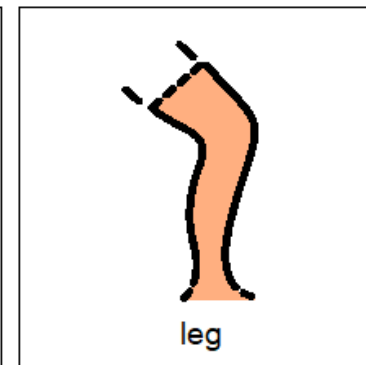
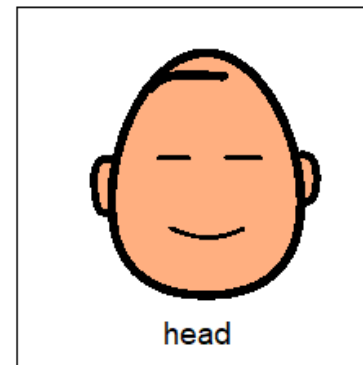
Answer key included.

Print onto cardstock or mount on index cards. Cut pictures apart and show student answer choices for each question.

Q 5



Q 6



With this version, you cut out the answer choices and glue them on index cards. Ask the student the question, and they point to the correct answer.

1. What is the name of system that is made up of bones, teeth, ligaments and cartilage?
 - A. Skeletal system
 - B. Nervous system
 - C. Cardiovascular system
2. True or False. Your bones continue to repair themselves.
 - A. True
 - B. False
 - C. I don't know
3. The main function of the axial skeleton is:
 - A. Move around
 - B. Digest food
 - C. Stand tall
4. The inside of the bone contains:
 - A. sponge
 - B. ligament
 - C. Bone marrow
5. Sometimes bones break. This is called a:
 - A. fracture
 - B. band aid
 - C. fall
6. This is a strong band that connects muscles to bones:
 - A. femur
 - B. ligament
 - C. yarn

This is your traditional multiple choice version. It can also be used as a recording sheet if your students are using the version with index cards.

Watch the movie on the Skeletal System

Finally, you are able to move around thanks to more than just your bones. It takes you muscles as well.



Christa Joy, Special Needs for Special Kids

Watch the movie on Strong Bones

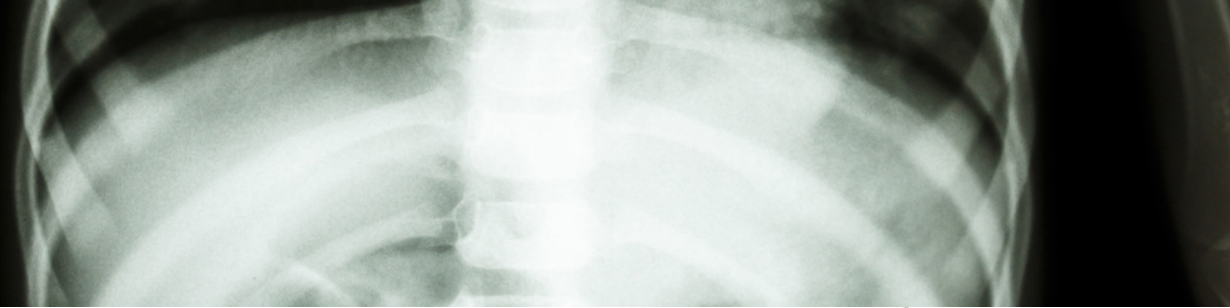
One important thing to do is to make sure you get enough calcium. But how do you do that?



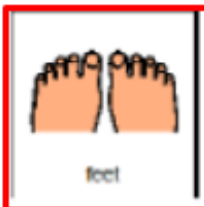
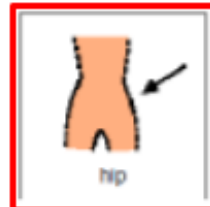
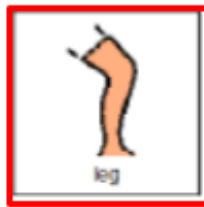
Christa Joy, Special Needs for Special Kids

This unit also includes digital versions of the activities.

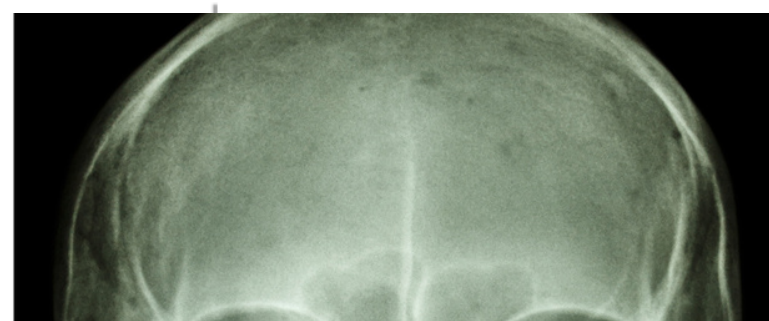
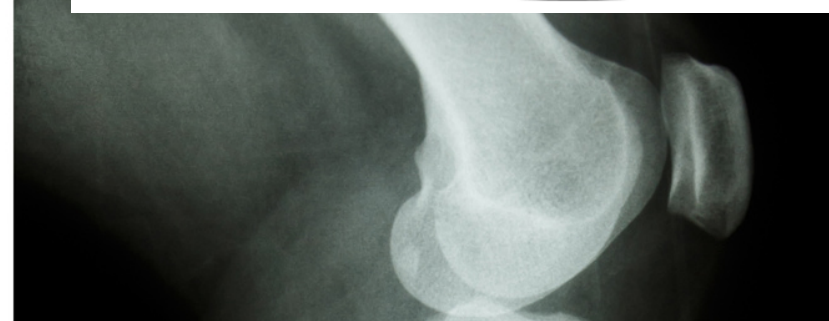
Students can watch a movie book version of the book rather than printing it out.

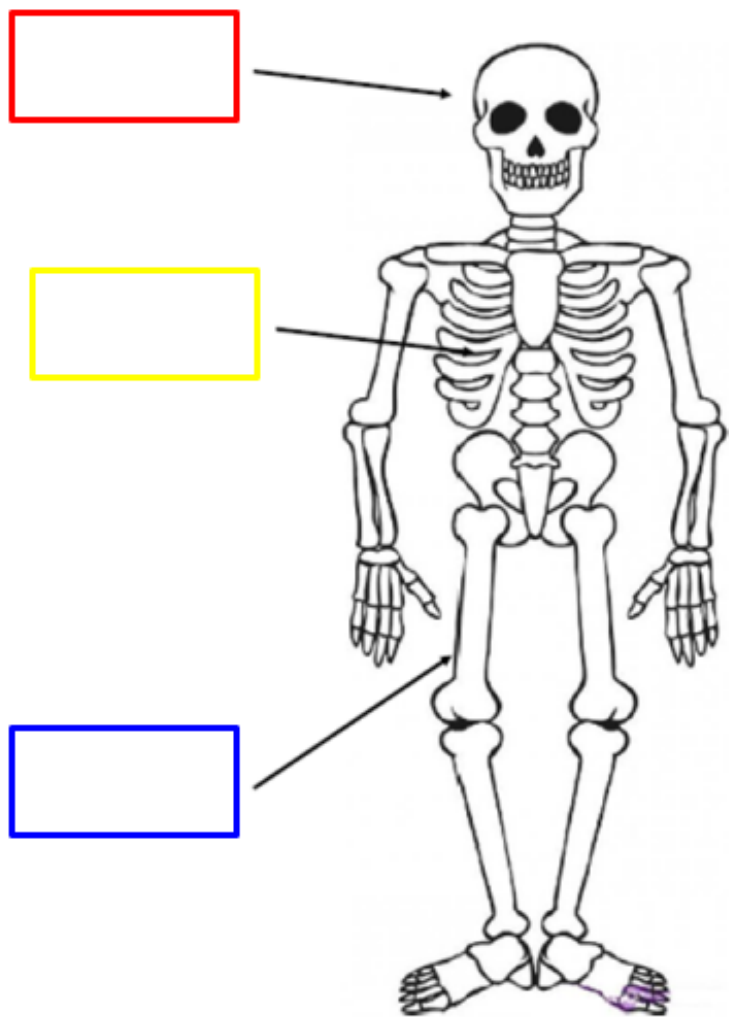
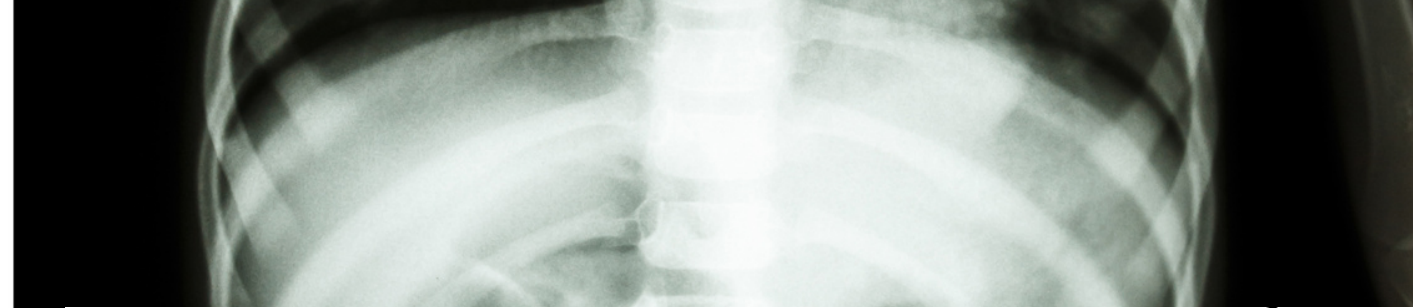


Place the following in the circle map about the appendicular skeletal system.



Each activity is set up so students can click and drag answers. No typing is required.





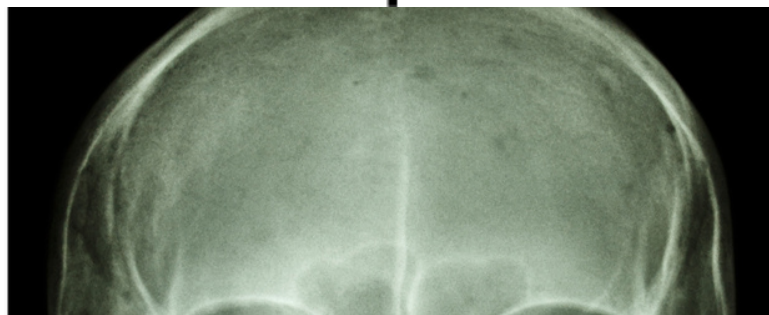
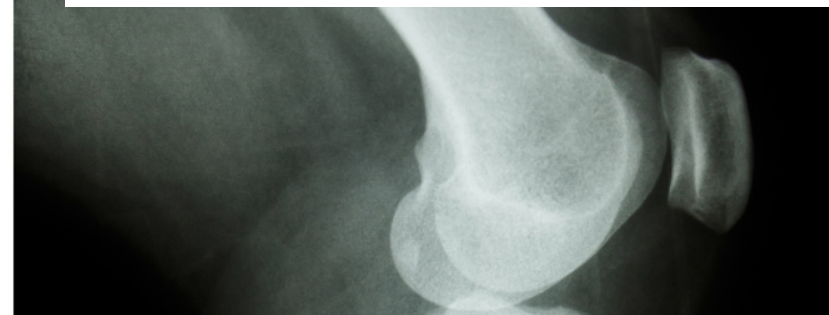
Label the parts of the skeleton.

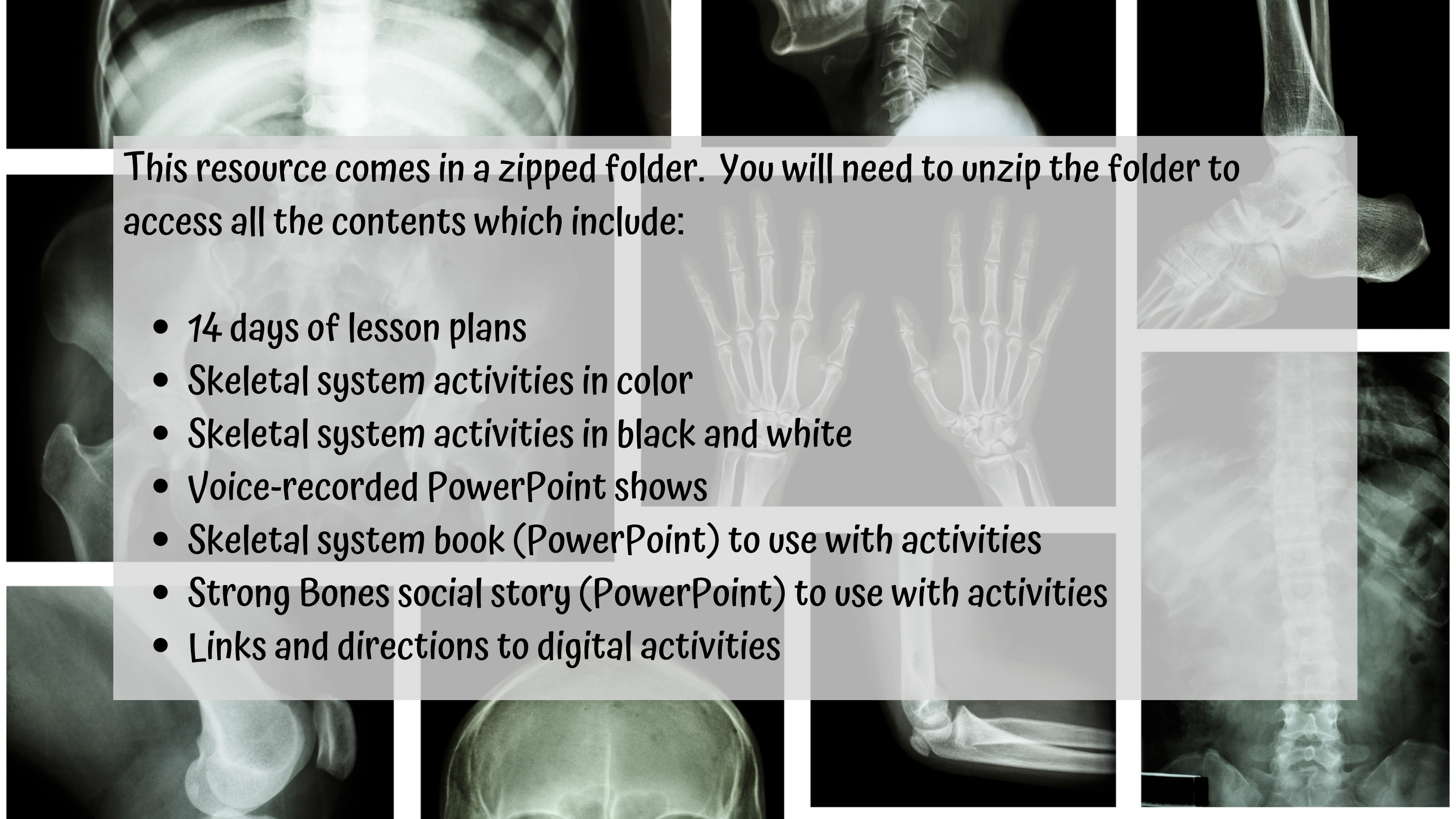
ribs

femur

skull

The second set of slides uses color for differentiation and extra support for students who may need it. Mix and match slides from both sets to make the perfect set for each student.





This resource comes in a zipped folder. You will need to unzip the folder to access all the contents which include:

- **14 days of lesson plans**
- **Skeletal system activities in color**
- **Skeletal system activities in black and white**
- **Voice-recorded PowerPoint shows**
- **Skeletal system book (PowerPoint) to use with activities**
- **Strong Bones social story (PowerPoint) to use with activities**
- **Links and directions to digital activities**