Part 2 Skeletal System Part 2 Lesson 1 Skeletal System Name:

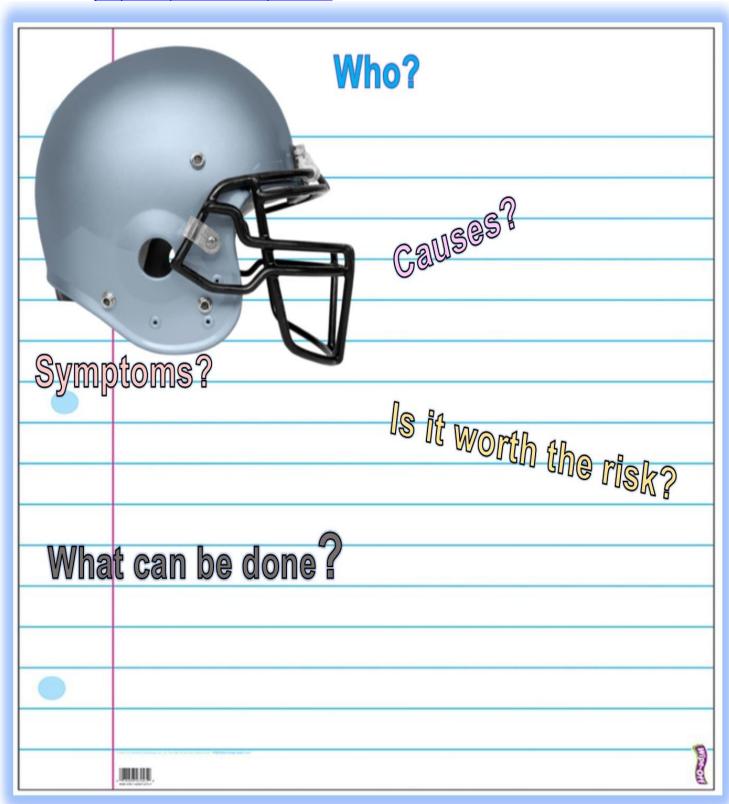
Bone confains three types of cells. These three cells
-Osteo: Make new bone and help repair damage.
-Osteo: Carry nutrients and waste products to and from blood vessels in
the bone.
-Osteo, Break down bone and help to sculpt and shape it.
An adult human has bones.
When you are born, you have over bones. They fuse together as you get olde
The skeletal system
-Provides the and
- <u> </u>
-Produces
Part 2 Lesson 2 Traumatic Brain Injury
Traumatic brain injury ()
A blow to the head that disrupts normal function.
A mild blow to the can result in being knocked
A Trima blott to the

What some of the effects of injury on the brain. Please record around the brain below



Case study. Former NFL Players. NPR

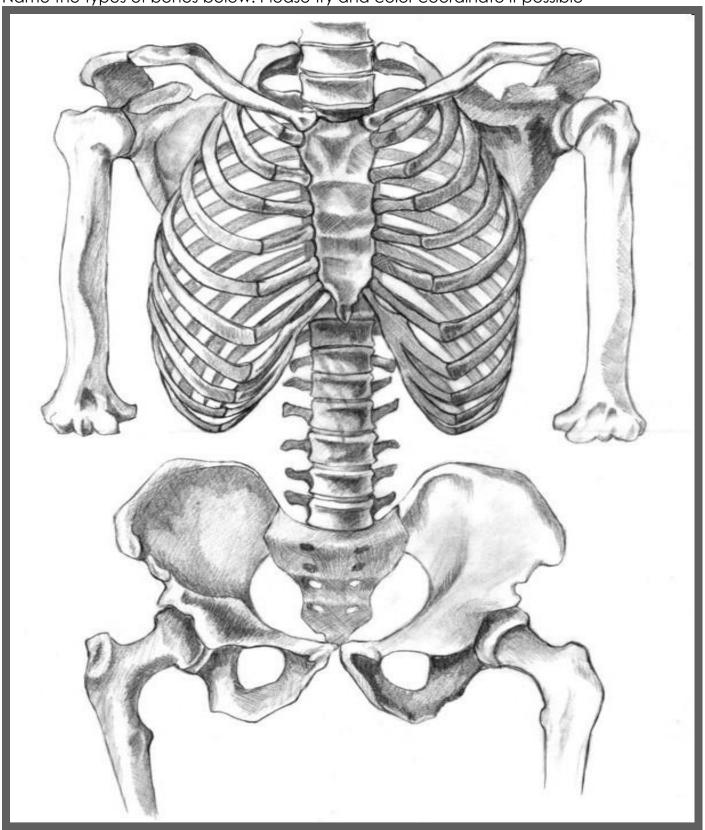
- Two page reading and or audio link.
- http://www.npr.org/2014/01/31/269422083/sidelined-by-brain-injury-ex-nfl-player-copes-with-desperation



Part 2 Lesson 3 Bones, Ligaments, Tendons

There are two main categories of bones Bone (Cancellous bone)
Bone Spongy bone or soft bone contains bone (Cancellous bone
Bone Marrow contains many vessels. Red Marrow: Creates red and white cells. Yellow: Contains cells
Describe the two types of bones, and bone marrow below
Skeleton: The supportive structure of the body oriented along its median
longitudinal axis Skeleton: Attaches to something, the extremities.
Bones are categorized into several groups. Bones Bones Bones Bones

Name the types of bones below. Please try and color coordinate if possible

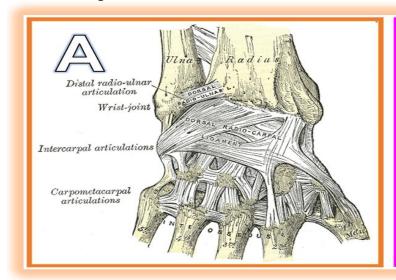


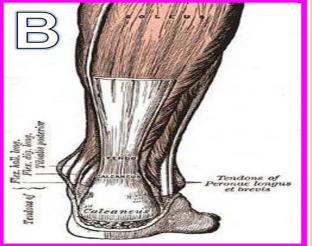
Bones are held together by connective tissues.

Ligaments: Bones to _____

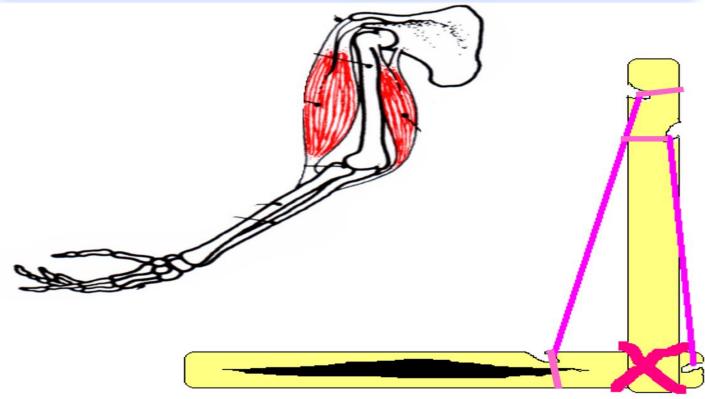
Tendons: Bones to _____

Which is a ligament and which is a tendon?



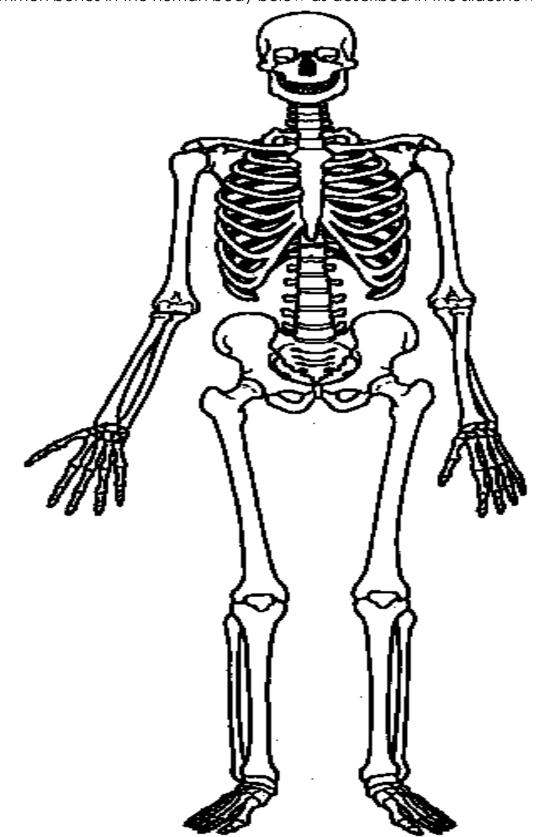






Part 2 Lesson 4 Common Bones in the Human Body

Name the common bones in the human body below as described in the slideshow



Quiz Wiz! 1-10 Bones of the Human Body.

1)	2)	3)
4)	5)	6)
7)	8)	9)
10)	*11)	

Part 2 Lesson 5 Skeletal Joints

The human skeletal system... (FFF)

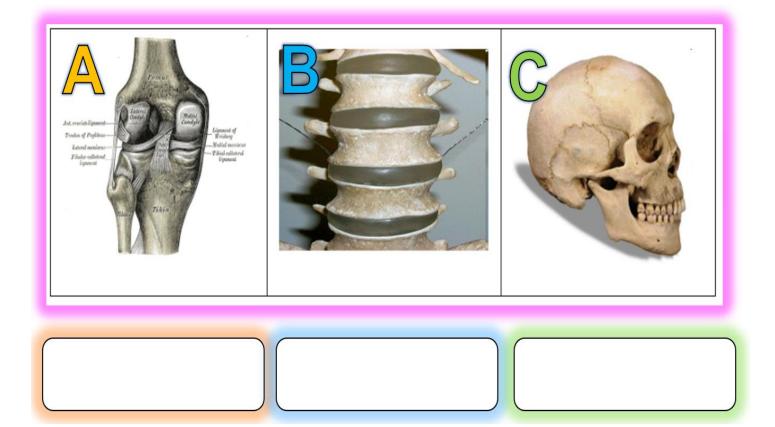
- Incredibly strong
- Light weight
- Can and itself.

A human joint: A place where two bones _____.

Joints can be...

- A.) ______ (immovable)
 B.) _____ (partially movable)
 C.) _____ (freely movable)

♦ Please place the correct term below the appropriate picture? Word Bank: Fibrous (immovable) Cartilaginous (partially movable) Synovial (freely movable)



The six types of human joints.

Ball and _____ Joint: Radial movement in almost ____ direction.

Hips and Shoulders.

Ellipsod Joint: Similar to ball and socket but much less.

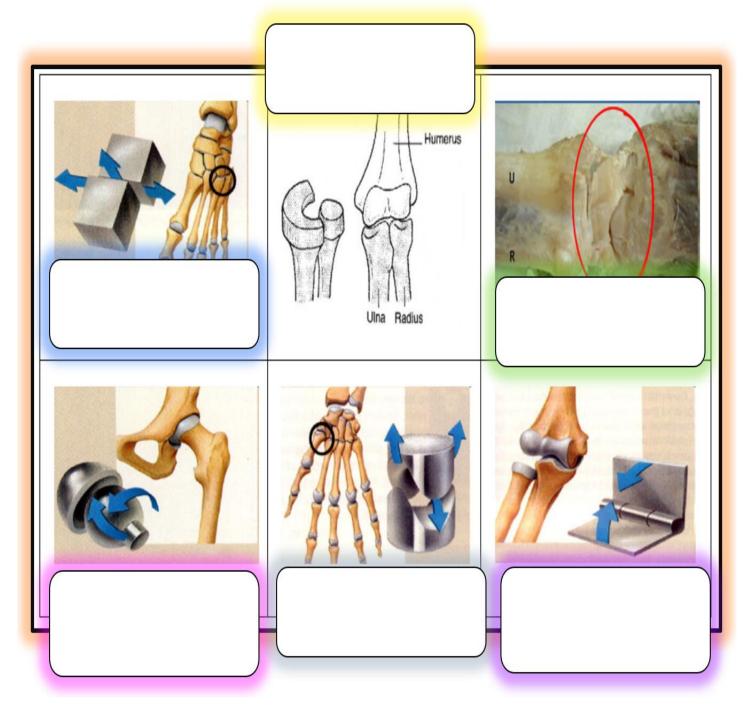
Hinge Joint: Allows _____ and retraction.

Pivot Joint: Rotation around an _____ (Neck and forearms)

Saddle Joint: Movement back and forth and _____ and _____.

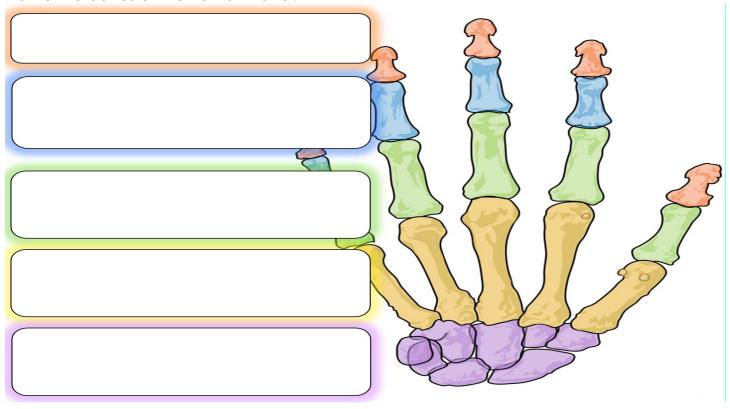
Gliding Joint: Bones _____ past one another.

Name the type of joint below? \Diamond In just a few words...What does the joint do? Remember, FFF (Form Follows Function)



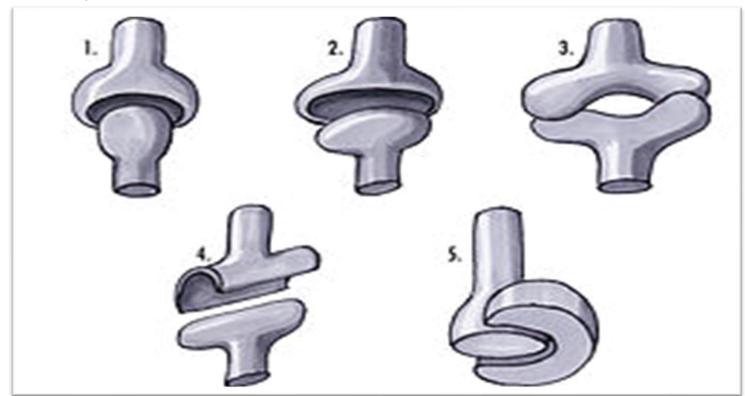
Part 2 Lesson 6 Biomechanical Hand

Name the bones of the human hand?



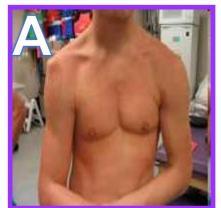
Part 2 Lesson 7 Joints, Injuries and Wrap-Up

Name the joints below?



Some common injuries are...

Name the common injuries below?







What is PRICE when dealing with a common injury?









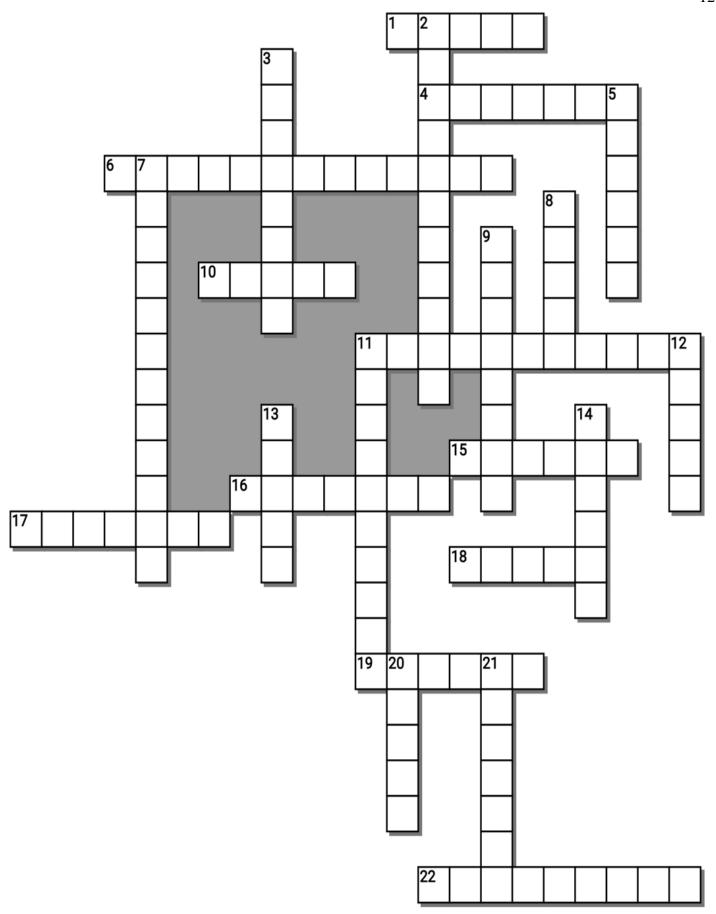


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Across Down	1
1. A human: A place where two 2. Th	ese bone cells break down bone and
bones meet. help	to sculpt and shape it.
4. Bones are held together by connective 3. Th	e system is your body's
·	al framework. It consists of bones and
6. Joints can be A.) Fibrous (immovable) B.) conn	ective tissue, including cartilage,
	ons, and ligaments.
	Joint: Movement back and
	and up and down.
	Skeleton: Attaches to
11. These cell make new bone and help some	ething, the extremities.
repair damage. 8	Skeleton: The supportive structure
15. This is found in the center of most bones of the	e body oriented along its median
and has many blood vessels longi	tudinal axis
16. Joints can be A.) 9. Jo	ints can be A.) Fibrous (immovable) B.
(immovable) B.) Cartilaginous (partially Carti	laginous (partially movable) C.)
movable) C.) Synovial (freely movable)	(freely movable)
17. There are two main categories of bones. 11. T	hese bones cells carry nutrients and
Spongy Bone (Cancellous bone) waste	e products to and from blood vessels ir
CBone the b	oone.
18 Joint: Allows extension and 12. T	he skeletal systemProvides the
retraction	_ and form.
· · · · · · · · · · · · · · · · · · ·	his is a nice acronym to remember
, , , , , , , , , , , , , , , , , , , ,	ı you have an injury. Pressure, Rest, Ice,
· ·	press, Elevate
• ,	all and Joint: Radial
	ement in almost any direction. Hipsand
	lders.
	Joint: Rotation around an axis
	and forearms
	Joint: Bones slide past one
anoth	·
	ner.

Possible Answers

AXIAL, SHAPE, APPENDICULAR, BRAIN, CARTILAGINOUS, COMPACT, FIBROUS, GLIDING, HINGE, LIGAMENTS, MARROW, OSTEOBLASTS, OSTEOCLASTS, OSTEOCYTES, PRICE, PIVOT, SADDLE, SOCKET, SPONGY, SYNOVIAL, TENDONS, JOINT, SKELETAL



Part 2 Review Game

1-20 = 5 pts *20-*25 * = Bonus + 1 pt, (Secretly write owl in correct space +1 pt) Final Question = 5 pt wager Name: Due: Today

Score ____ / 100

GIVE THE DOG A BONE	BARE BONES	JOINT EFFORT	MUSCLE UP	SKELETONS Bonus round 1 pt each
1)	6)	11)	16)	*21)
2)	7)	12)	17)	*22)
3)	8)	13)	18)	*23)
4)	9)	14)	19)	*24)
5)	10)	15)	20)	*25)

Find	inal Question Wager					
		<u></u>				

Part 2 Skeletal System Name:

Part 2 Lesson 1 Skeletal System

Bone contains three types of cells. These three cells...

- -Osteoblasts: Make new bone and help repair damage.
- -Osteocytes: Carry nutrients and waste products to and from blood vessels in the bone.
- -Osteoclasts: Break down bone and help to sculpt and shape it.

An adult human has 206 bones.

When you are born, you have over 300 bones. They fuse together as you get older.

The skeletal system...

- -Provides the shape and form.
- -Supports.
- -Protects.
 - Traumatic brain injury (TBI)
- -Produces blood.
- -Stores Minerals

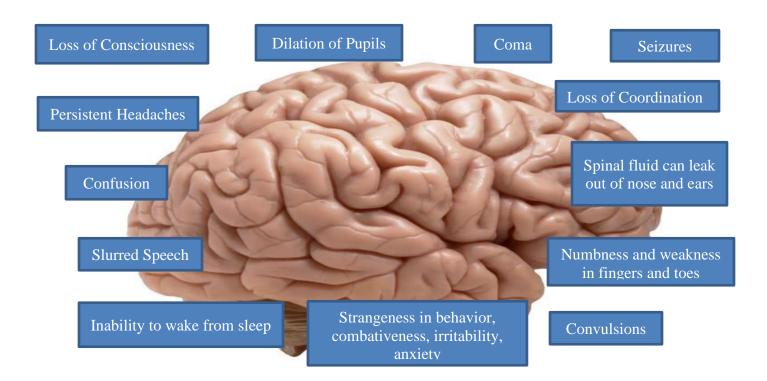
Part 2 Lesson 2 Traumatic Brain Injury

Traumatic brain injury (TBI)

A blow to the head that disrupts normal brain function.

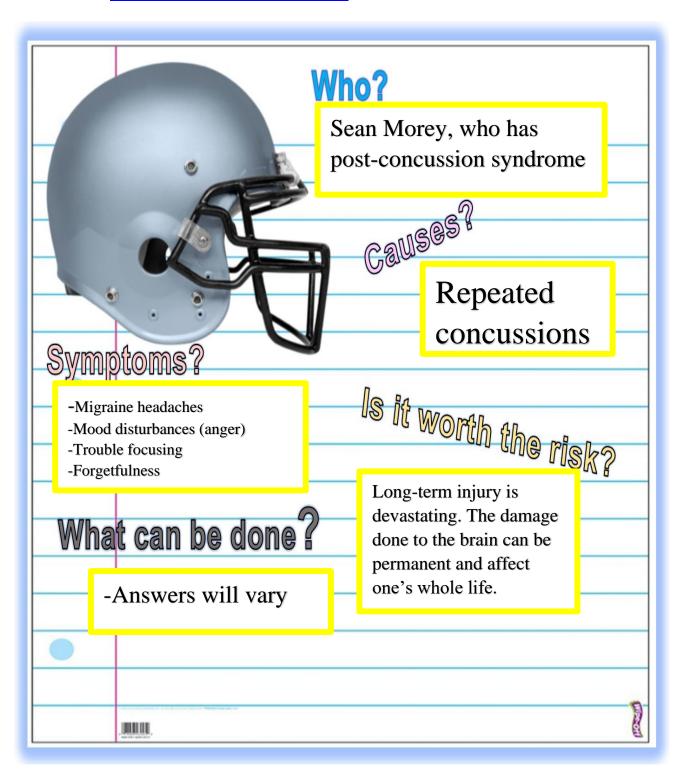
A mild blow to the head can result in being knocked unconscious.

What are some of the effects of injury on the brain? Please record around the brain below



Case study. Former NFL Players. NPR

- Two page reading and or audio link.
- http://www.npr.org/2014/01/31/269422083/sidelined-by-brain-injury-ex-nflplayer-copes-with-desperation



Part 2 Lesson 3 Bones, Ligaments, Tendons

There are two main categories of bones.

Spongy Bone (Cancellous bone)

Compact Bone

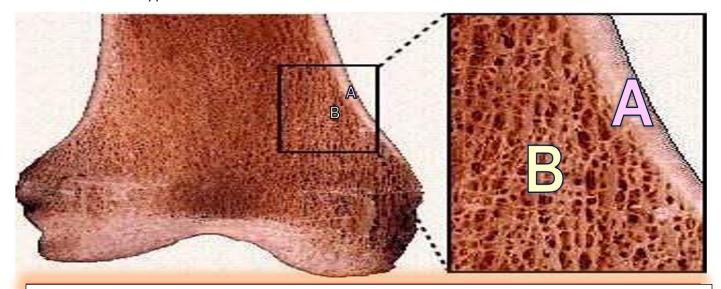
Spongy bone or soft bone contains bone marrow. (Cancellous bone)

Bone Marrow contains many blood vessels.

Red Marrow: Creates red and white blood cells.

Yellow: Contains fat cells

Describe the two types of bones, and bone marrow below



A=Compact bone B=Spongy bone

Compact bone is dense and provides protection and strength. It makes up the outer layer of the bone.

Spongy bone (soft bone) contains bone marrow. It is called cancellous bone and has many pores.

Bone marrow contains blood vessels. Red marrow creates red and white blood cells while yellow marrow contains fat cells.

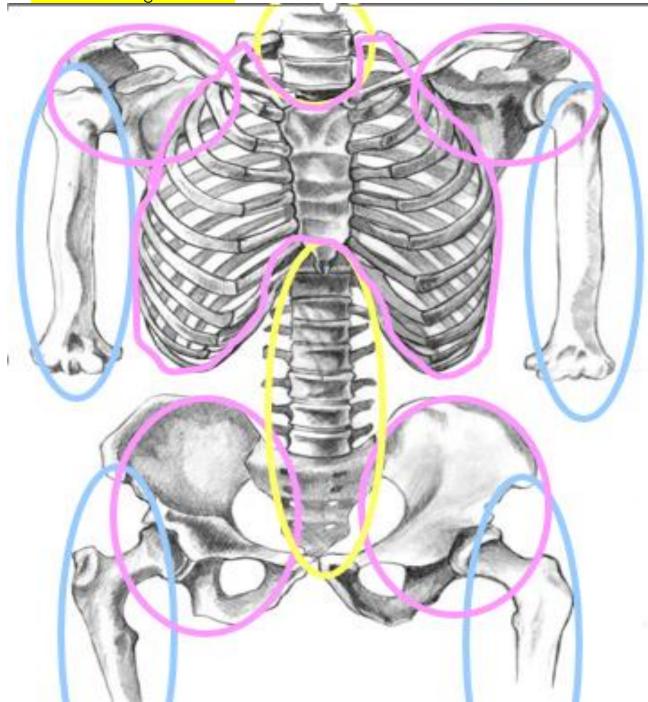
Axial Skeleton: The supportive structure of the body oriented along its median longitudinal axis

Appendicular Skeleton: Attaches to something, the extremities.

Bones are categorized into several groups.

Long Bones Flat Bones Irregular Bones Short Bones Name the types of bones below. Please try and color coordinate if possible.

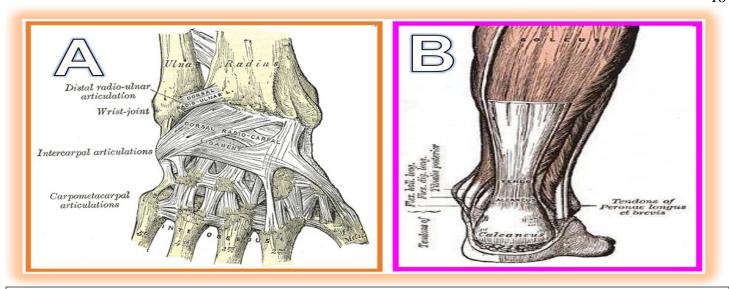
- Blue= Long bones
- Pink= Flat bones
- Yellow= Irregular bones



Bones are held together by connective tissues.

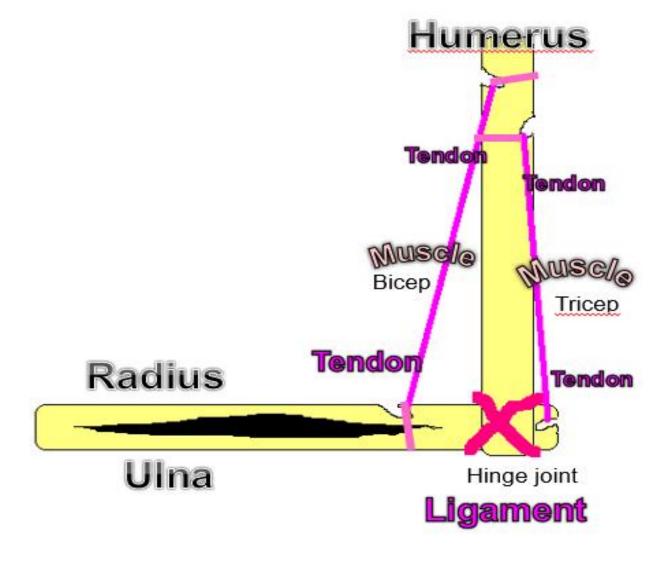
Ligaments: Bones to bones Tendons: Bones to muscles

Which is a ligament and which is a tendon?



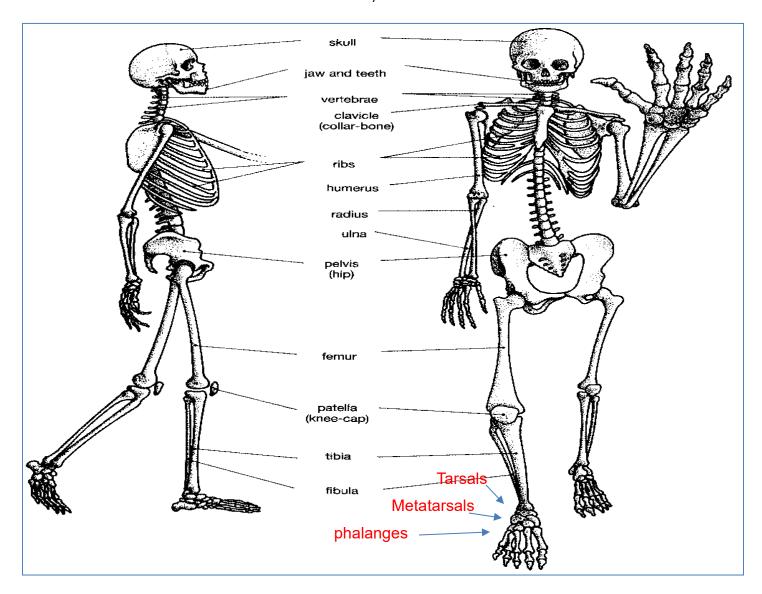
A is a ligament. It connects bone to bone.

B is a tendon. It connects bone to muscle.



Part 2 Lesson 4 Common Bones in the Human Body

Name the common bones in the human body below as described in the slideshow



Quiz Wiz! 1-10 Bones of the Human Body.

1) Fibula, Tibia, Tarsals, Metatarsals, Phalanges	2) Clavicle, Scapula, Humerus	3) Pelvis, Femur
4) Tibia, Fibula, Tarsals, Metatarsals	5) Skull, Mandible	6) Vertebrae
7) Femur, Patella, Tibia	8) Skull, Jawbone Mandible, Vertebrae	9) Sternum, Clavicle, Ribs
10) Ulna, Radius, Carpals, Metacarpals, Phalanges	*11) Book of Life	

Part 2 Lesson 5 Skeletal Joints

The human skeletal system... (FFF)

- Incredibly strong
- Light weight
- Can grow and repair itself.

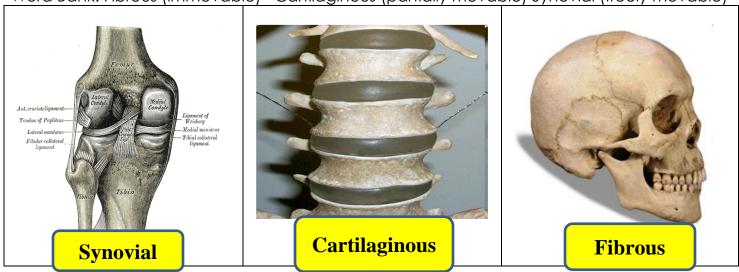
A human joint: A place where two bones meet.

Joints can be...

- A.) Fibrous (immovable)
- B.) Cartilaginous (partially movable)
- C.) Synovial (freely movable)

♦ Please place the correct term below the appropriate picture.

Word Bank: Fibrous (immovable) Cartilaginous (partially movable) Synovial (freely movable)



The six types of human joints.

Ball and Socket Joint: Radial movement in almost any direction.

Hips and Shoulders.

Ellipsod Joint: Similar to ball and socket but much less.

Hinge Joint: Allows extension and retraction.

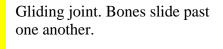
Pivot Joint: Rotation around an axis

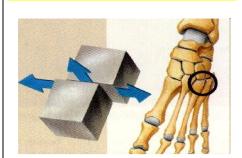
Neck and forearms.

Saddle Joint: Movement back and forth and up and down.

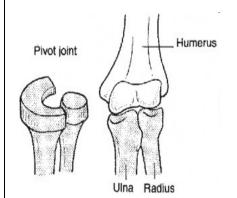
Gliding Joint: Bones slide past one another.

Name the type of joint below? \Diamond In just a few words...What does the joint do? Remember, FFF (Form Follows Function)

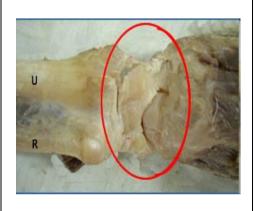




Pivot joint. Rotation around an axis.

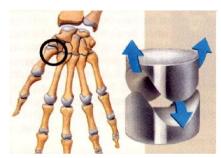


Ellipsoid joint. Similar to ball and socket but much less.





Ball and socket joint. Allows radial movement in almost any direction.



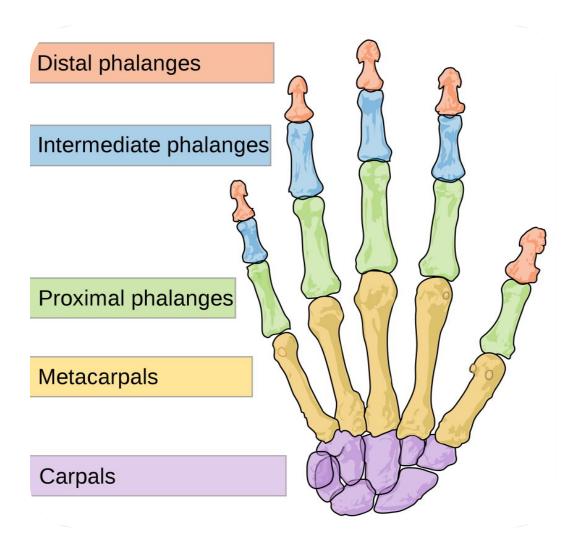
Saddle joint. Movement back and forth and up and down.



Hinge joint. Allows extension and retraction.

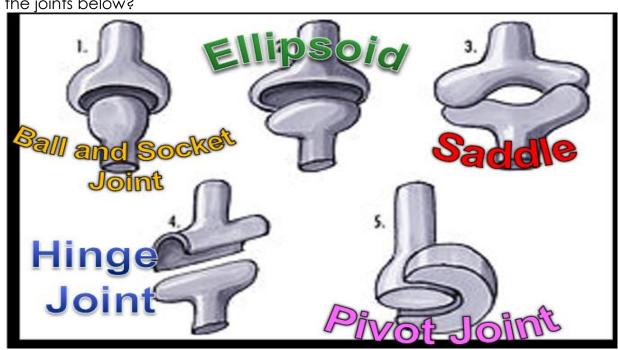
Part 2 Lesson 6 Biomechanical Hand

Name the bones of the human hand?



Part 2 Lesson 7 Joints, Injuries and Wrap-Up

Name the joints below?



Some common injuries are...

Sprains Fractures Dislocations

Name the common injuries below?







A= Dislocation

B= Fracture

C= Sprain

What is PRICE when dealing with a common injury?







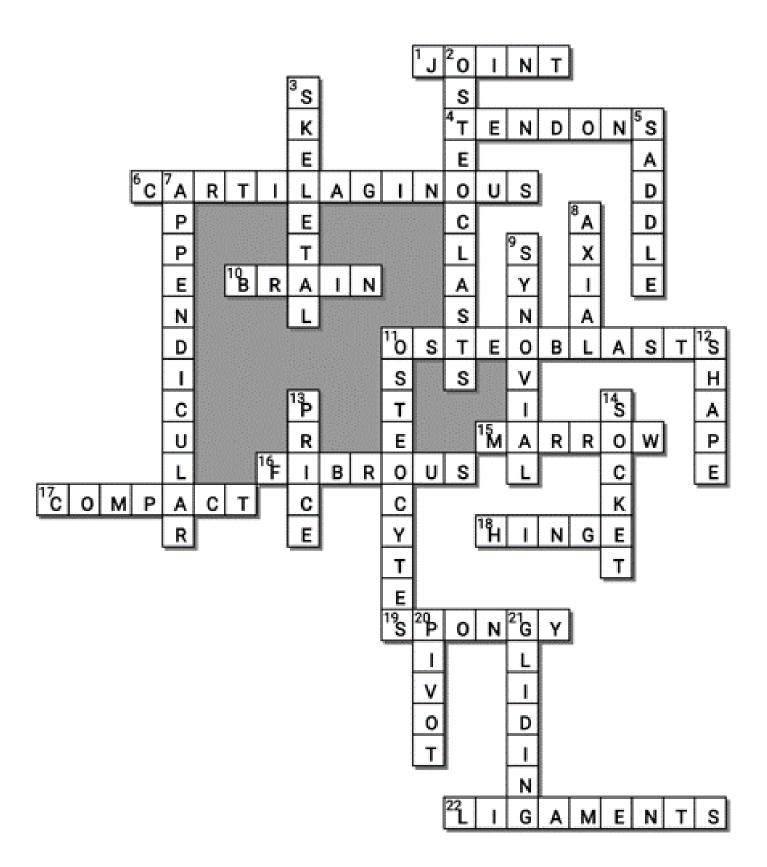


Protection-protect area with something like a brace Rest- limit movement Ice- reduces swelling and helps stop bleeding Compressionapplying pressure to help stop the bleeding Elevation- raising the injured area above the rest of the body to reduce swelling

Across	Down
1. A human: A place where two	2. These bone cells break down bone and
bones meet.	help to sculpt and shape it.
4. Bones are held together by connective	3. The system is your body's
tissues. These connect Bones to muscles	central framework. It consists of bones and
6. Joints can be A.) Fibrous (immovable) B.)	connective tissue, including cartilage,
(partially movable) C.) Synovial	tendons, and ligaments.
(freely movable)	5 Joint: Movement back and
10. Traumatic Injury (TBI) A blow to	forth and up and down.
the head that disrupts normal brain function.	7 Skeleton: Attaches to
11. These cell make new bone and help	something, the extremities.
repair damage.	8 Skeleton: The supportive structure
15. This is found in the center of most bones	of the body oriented along its median
and has many blood vessels	longitudinal axis
16. Joints can be A.)	9. Joints can be A.) Fibrous (immovable) B.
(immovable) B.) Cartilaginous (partially	Cartilaginous (partially movable) C.)
movable) C.) Synovial (freely movable)	(freely movable)
17. There are two main categories of bones.	These bones cells carry nutrients and
Spongy Bone (Cancellous bone)	waste products to and from blood vessels in
CBone	the bone.
18 Joint: Allows extension and retraction.	12. The skeletal systemProvides the and form.
19. There are two main categories of bones.	13. This is a nice acronym to remember
Bone (Cancellous bone) Compact	when you have an injury. Pressure, Rest, Ice,
Bone	Compress, Elevate
22. Bones are held together by connective	14. Ball and Joint: Radial
tissues. These connect Bones to bones	movement in almost any direction. Hipsand
tissues. These connect bones to bones	Shoulders.
	20 Joint: Rotation around an axis
	Neck and forearms
	21 Joint: Bones slide past one
	another.
Teacher can remove this word bar	

Possible Answers

AXIAL, SHAPE, APPENDICULAR, BRAIN, CARTILAGINOUS, COMPACT, FIBROUS, GLIDING, HINGE, LIGAMENTS, MARROW, OSTEOBLASTS, OSTEOCLASTS, OSTEOCYTES, PRICE, PIVOT, SADDLE, SOCKET, SPONGY, SYNOVIAL, TENDONS, JOINT, SKELETAL



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Part 2 Review Game

1-20 = 5 pts *20-*25 * = Bonus + 1 pt, (Secretly write owl in correct space +1 pt) Final Question = 5 pt wager Name: Due: Today

Score ____ / 100

GIVE THE DOG A BONE	BARE BONES	JOINT EFFORT	MUSCLE UP	SKELETONS Bonus round 1 pt each
1)	6)	11)	16)	*21)
Make muscle fibers contract and relax	Tendon, ligament	Hinge joint	206 bones in adult human	Captain Jack Sparrow
2)	7)	12)	17)	*22)
Red= creates blood cells Yellow= fatty	A= Fibula B= Tibia C= Tarsals D= Metatarsals	Pivot joint	Awareness	Cobra Kai
3)	8)	13)	18)	*23)
Provides oxygen	A= Clavicle B= Humerus C= Radius D= Ulna E= Scapula	Ball and socket joint	A= Spongy bone (cancellous bone) B= Compact bone	Jack the Pumpkin King from The Nightmare Before Christmas
4)	9)	14)	19)	*24)
A= axial B= appendicular	A= Irregular, vertebrae B= Flat bones, pelvis C= Long bones, femur	A= Saddle joint, metacarpals B= Gliding joint, metatarsals	Osteoporosis	The Book of Life
5)	10)	15)	20)	*25)
A= Long bone B= Short bone C=Irregular bone D= Flat bone	A= Cartilaginous B= Fibrous C= Synovial	Sends impulses to the muscles	True	The Goonies

TBI stands for Traumatic Brain Injury