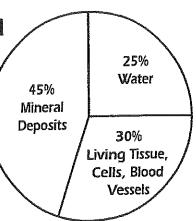
SKELETAL SYSTEM

Periosteum

The skeletal system supports the structure of the body, gives it shape, protects vital organs, and serves as an attachment for the muscles. Bones are alive. They take in food (calcium, phosphates) through

blood. They grow. They repair themselves.

Bones can be divided into living tissue, cells, blood vessels, mineral deposits, and water.



Spongy Bone -

Porous, contains blood vessels, lymph vessels, nerves

Marrow -

Compact Bone ·

Hard, outer surface of bone

Periosteum—Soft, thin substance that covers and protects the bone.

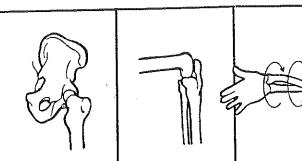
minima

Compact Bone—Tough, hard bone that can heal itself when broken.

Spongy Bone—Contains red marrow which produces red blood cells that carry oxygen and carbon dioxide throughout the body.

Marrow—Soft, inner center of bones containing blood vessels and fat cells. Manufactures red blood cells.

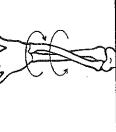
Kinds of Joints



Ball and Socket (hips, shoulders)



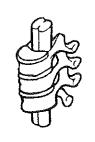
(elbows, knees)



Pivot Joint (head, arms)



Immovable Joint (skull)



Gliding Joint (fingers, spine)

SKELETAL SYSTEM

The human skeleton contains 206 bones.

•	f ! (a) = =		E	- E +1	-11-4
1	. Ust the	main	functions	or the	skeleton

•••	 	 	
_			

B.			

The bones of the skeleton are held together at the joints by ligaments and tendons. Bones are covered with a special tissue called

The skeletal system is divided into two parts:

1. Axial Skeleton

Α.

skull (protects brain) ribs (protect lungs, heart) spinal column (houses and protects spinal cord)

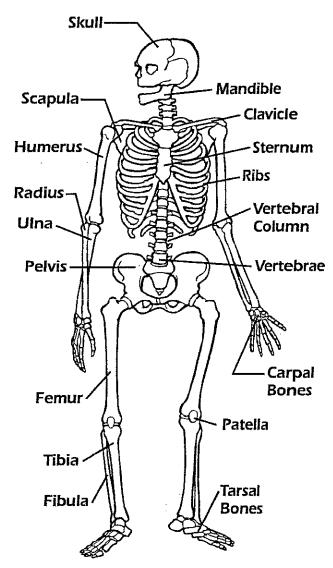
2. Appendicular Skeleton

legs pelvis arms shoulders

Our joints are covered with a thick pad of smooth cartilage which acts as a buffer between the hard bones.

There are four main shapes of bones in the skeleton:

flat—ribs, shoulder blades irregular—vertebrae, tiny ear bones short—wrist, ankle long—arms, legs, fingers



- 3. Draw a circle around four ball and socket joints.
- 4. Draw an X on four hinge joints.
- 5. Draw a star * on two gliding joints.
- 6. Draw two arrows → showing where a pivot joint is located.
- 7. Draw an arrow \rightarrow showing where the immovable joints are located.

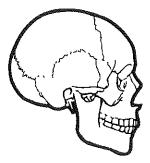
Name			

SKELETAL SYSTEM

Use the information on pages 19 and 20 to complete these sentences.

1.	The collarbone is called the _						
2.	The patella is better known as	your					
3.	The	and	make up the lower leg.				
4.	The	and	make up the lower arm.				
5.	Ball and socket joints can be f	ound in the	and				
6.	The !	nas bones in it tha	t have fused together and are immovable.				
7.	Your breastbone is also known	as your					
8.	The hipbone is known as the						
9.	The thighbone is a long bone	called the					
10.	. The skull is composed of 22 bones. All but one are immovable. Name the one bone that can move in your skull						
11.	Explain why "hinge" is an appropriate name for the joints at your knees and elbows.						
12.	Name the four main functions	of the skeleton.					
	A						
	В.						
	C						
	D						
13.	The skeleton is made up of		_ bones.				
14.	Name the two parts of the ske	eletal system.	·				
	A	· · · · · · · · · · · · · · · · · · ·	В				





Name			
Name			

Date		 	

REVIEW

Write the letter of the correct answer on the blank in front of each word.

- 1. ____ Marrow
- 2. _____ Skeleton
- 3. Calcium
- 4. Periosteum
- 5. ____ Ligament
- 6. ____ Cartilage
- 7, ____ Axial skeleton
- 8. ____ Appendicular skeleton
- 9. _____ Vertebrae
- 10. _____ Spinal cord

- A. smooth tissue that acts as a buffer between bones
- B. large bunch of nerves that pass through your spine
- C. part of your skeleton that includes skull, ribs, and spinal cord
- D. substance in the center of the bones
- E. the outer covering of bones
- F. the irregular bones that make up the spinal column
- G. tissue that fastens your bones together
- H. the part of your skeleton made up of your arms, legs, pelvis, and shoulders
- framework of your body
- J. the mineral found in bones

Answer the following questions.

- 11. Why are joints necessary?
- 12. Why is your backbone so important to you?
- 13. How does your skeleton compare to the steel framework of a skyscraper?
- 14. Why do bones of older people break more easily than those of a younger person?
- 15. Explain why a proper diet is important to your bones.