

HS20-HB1

Analyze the anatomy and physiology of a healthy human.

Indicators for this outcome

- (b) Describe the anatomy (structure) and physiology (function) of at least five human body systems (i.e., cardiovascular, endocrine, lymphatic, digestive, urinary, muscular, nervous, respiratory, reproductive, integumentary and skeletal). (K)

- The infant body contains over _____ bones.
- The human adult body contains _____ bones
- After birth, bones start to _____ in the infant body to become larger and stronger bones.

Bone Functions:

1. Support:
2. Protection:
3. Movement:
4. Blood Cell Production:
5. Storage:

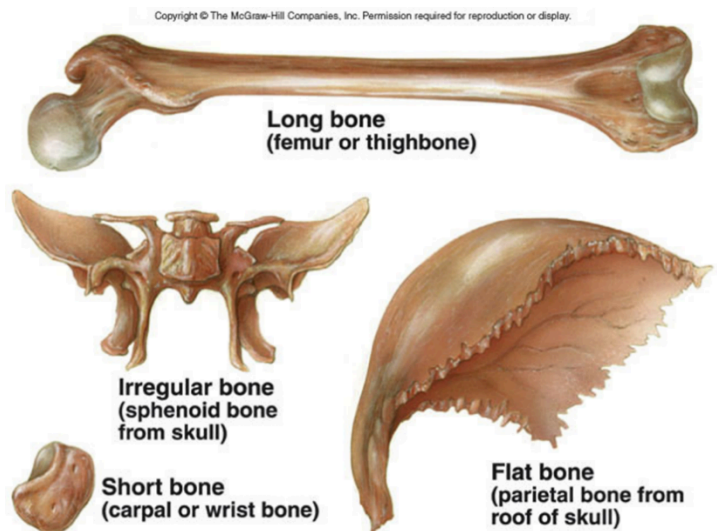
Types of Bones:

1. Long Bones
2. Short Bones
3. Flat Bones
4. Irregular bones
5. Sesamoid bones

The skeletal system is composed of two types of skeletons:

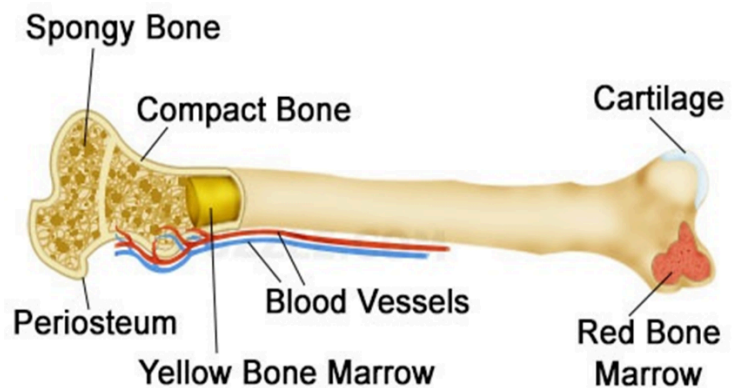
● Axial Skeleton:

● Appendicular Skeleton:



Bone Structure:

- Compact Bone
- Spongy Bone
- Cartilage



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Bone Marrow:

- Red
 - Everywhere in infant
- Yellow
 - Young to middle age development in shafts
 - Does _____ produce blood

As infants, our bodies are mostly _____. Over time this _____ cartilage is turned to _____ bone.

Cartilage is hardened when a mixture of _____ and _____ combine. This process is called _____

Bones continue to grow through childhood, growing _____, _____ & _____. Growth occurs from the _____

During puberty, _____ allow bones to become more _____. Bones are the _____, but after that _____ to other areas of the body.

Bone _____ is directly related to _____ and _____, especially in your childhood and teenage years.

Processes of Bone Growth:

- Ossification
- Osteoblasts
- Collagen
- Calcium phosphate
- Osteoclasts

Bone Joints:

- Joint:

- Joints allow various amounts of movement
- Some joints are held together for _____, some have a wide range of motion
- Try moving these joints: knee joint, vertebrae joints (bending side to side)

1. Gliding Joints

2. Pivot Joints

Where _____ on each other. An example is the two top vertebrae that support the head. These joints pivot allowing you to turn your head

3. Ball and Socket Joints

A _____ of a bone fits into a _____ of another bone. An example is the _____ bone fitting into the socket of the _____ bone. Can you think of another?

4. Saddle Joints

Allows movement...

Example:

5. Hinge Joint

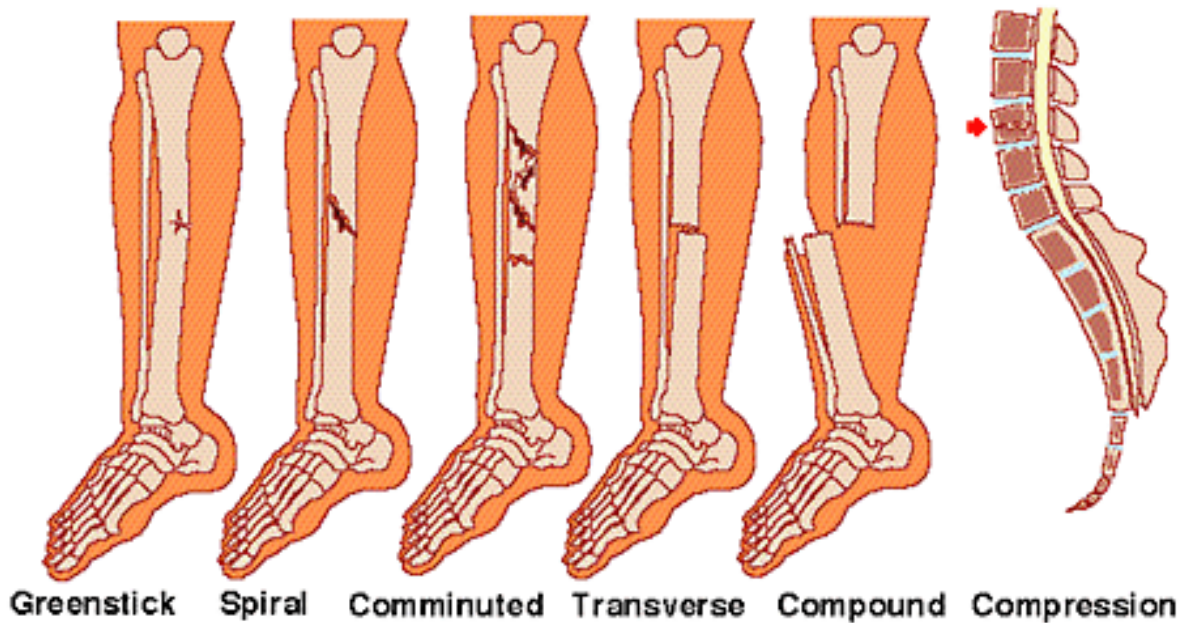
Allows movement of bone in _____. Think of a swinging door. The _____ joint is a hinge joint.

Skeletal Disorders:

1.

- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

Types of Fractures:



TYPICAL BONE FRACTURES

Abnormal