

# Pull

## SKELETAL SYSTEM

**School House Rock: Bones Music Video** 

# **Cool Facts**

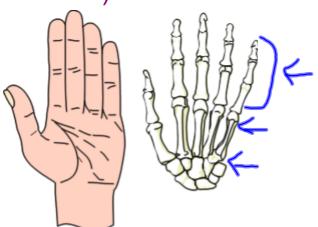
Did you know?

How many bones do you think there are in the human body?



Count the bones in each finger (3 in each finger, 2 in each thumb). These bones add up to





There are also 5 more bones (meacarpals in each hand, and 9 more (carpals) in the wrist.

**Brainpop Video: Skeletal System** 

## THE INSIDE STORY

Just like the boards of a house, your bones are the framework of the human body. Your skeletal system gives your body shape.

The hard bones of your skull <u>protect</u> your brain and your eyes. Ribs form a cage that protect your heart and lungs.

Bones also make red blood cells. Red blood cells carry oxygen to all your body cells and carry away cell wastes.



**Skeletal System Interactive** 

## Purpose of the Skeletal System:

- 1. The skeleton provides the framework for the body. It gives the body structure and support.
- 2. The skeleton protects organs in the body.
- 3. Blood Cell production.
- 4. Movement.

5. Mineral storage.



#### **Index Card Activity - Types of Bones**

The Mystery of The Skeletal System

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### The Skeletal System

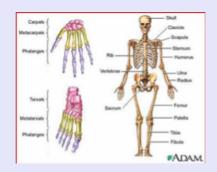
Four different types of bones:

1) Long bones: provide support, and help your body move.

Ex: arms and legs



2) Short bones: shape body. Help with movement. Ex: Fingers and toes



3) Flat bones: protection for organs, provide place for

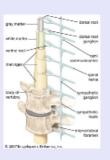
muscles to attach.

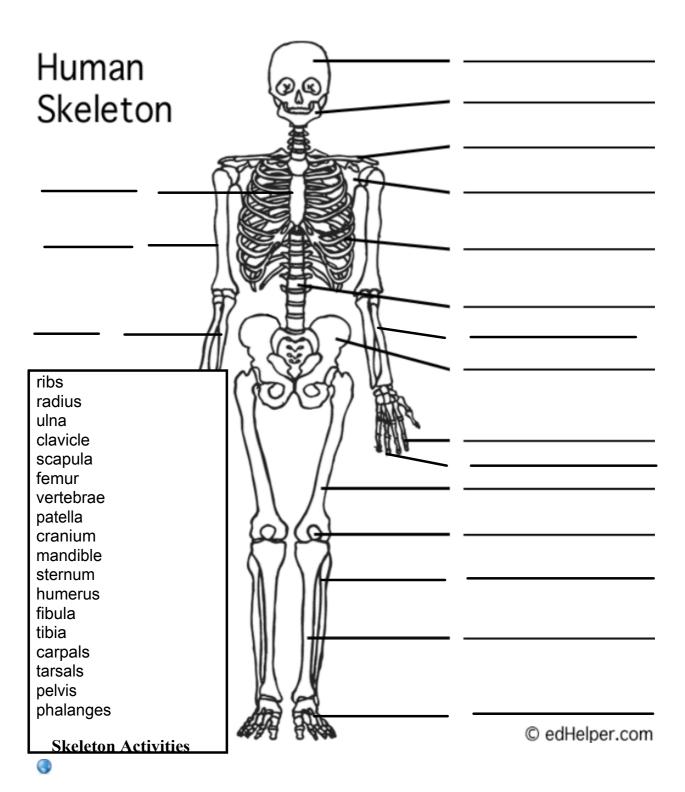
Ex: Ribs, hip, shoulder

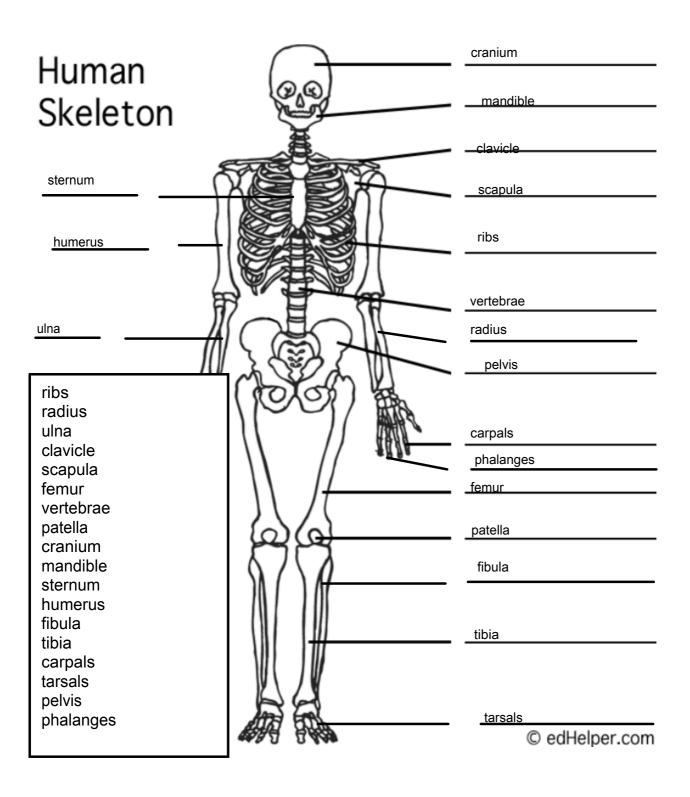


4) Irregular bones: smaller bones, different shapes.

Ex: vertebrae, patella.





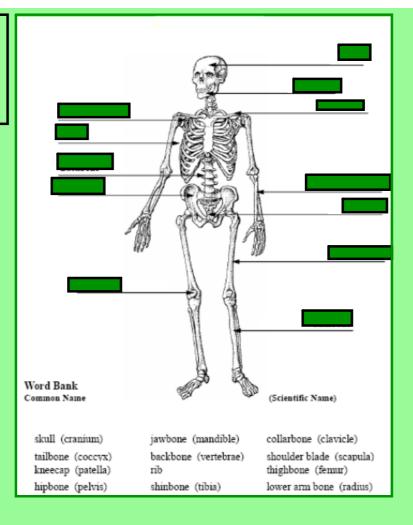


## DEM BONES **SKELETON** SKULL -THE FRAMEWORK OF THE BODY MANDIBLE SPINE CLAVICLE CLAVICLE. STERNUM RIBS SCAPULA **SPINE** RADIUS CARPALS PH*a*langes FEMUR Tibia TALK ABOUT FIBULA SKIN +BONES. PRALANGES

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From Head to Toe

Look at the words in the word bank and label the bones of the skeletal system. Remove the covers to reveal the correct name.







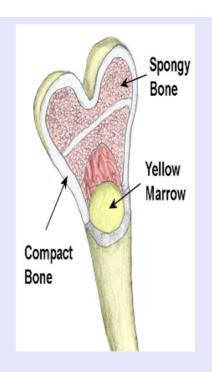
#### Make-up of the Long Bone

Marrow: center of the bone, produces red blood cells and stores fat.

Spongy bone: porous part of bone, lightweight and allows for easier movement.

<u>Calcified bone</u> (compact bone): hard portion, used for protection.

<u>Periosteum</u>: a thick two-layered membrane covering the surface of bones. Contains blood vessels and nerves.





Cartilage: rubbery substance, protects bones from wearing down. Also, provides structure for ears, nose, etc...



## Four Different types of joints:

1) Ball and socket: one bone sits inside the other, allows for lots of movement.

Ex: Hip and shoulder

2) Hinge joint: provides back and forth movement.

Ex: Knee and elbow

3) Gliding joint: back and forth, plus side to side.

Ex: Wrist and ankle

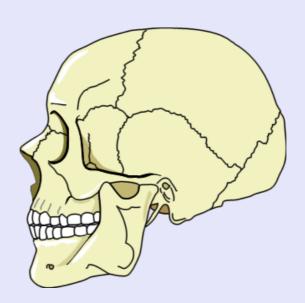
4) Pivot joint: one bone pivots around another.



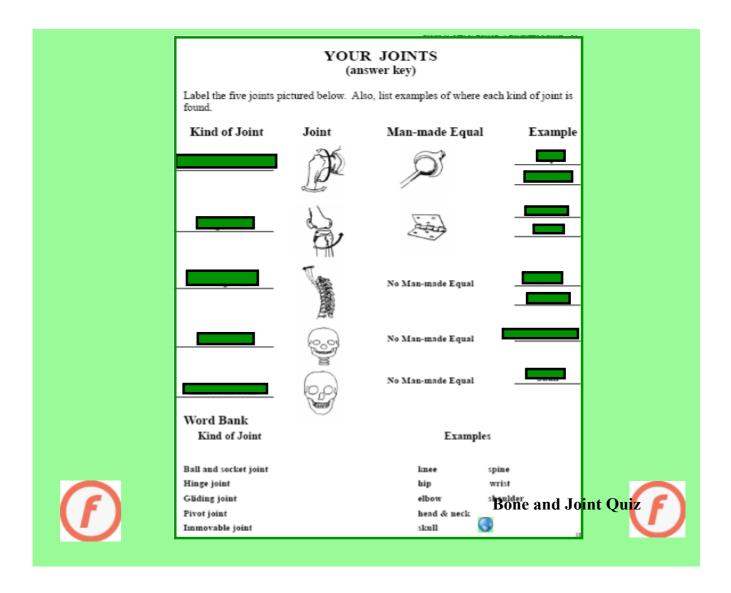
**Brainpop Video: Joints** 

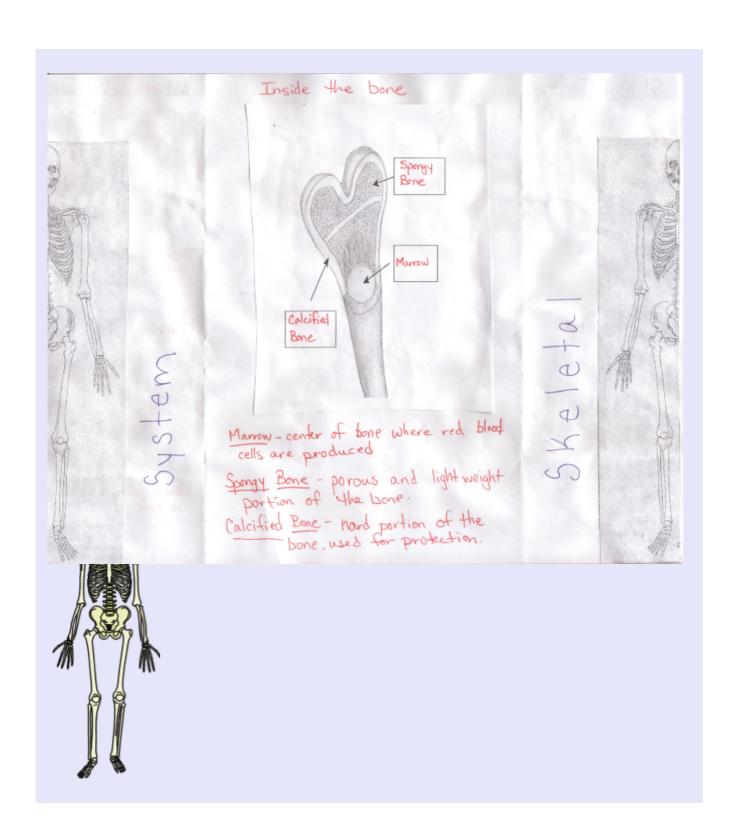
**Casing the Joint** 

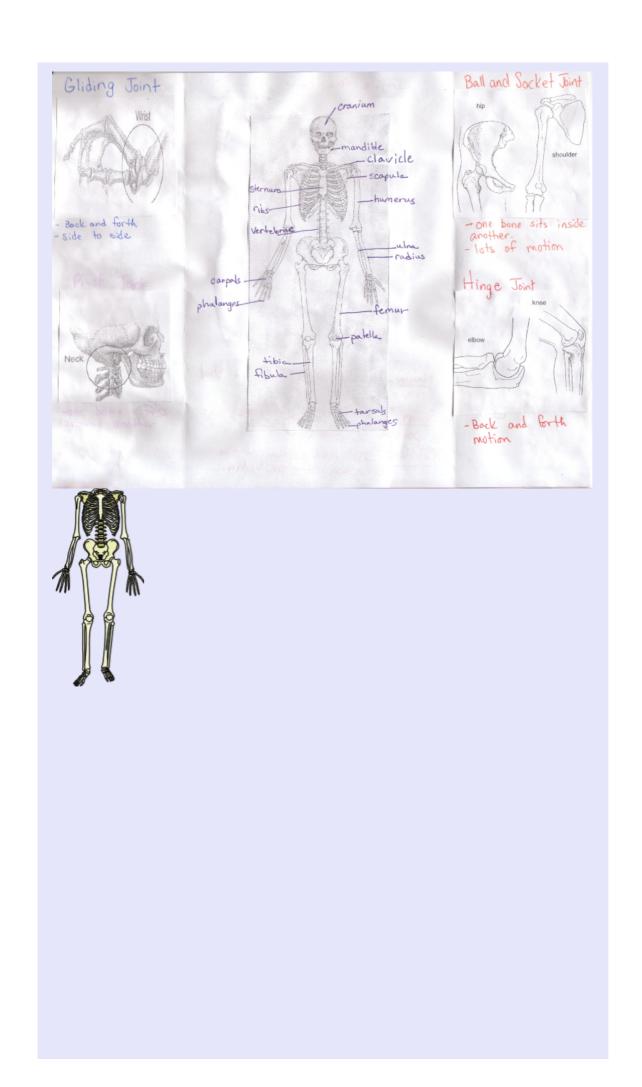
## <u>Immovable Joint:</u> Where two bones join but they do not move. Ex. cranium







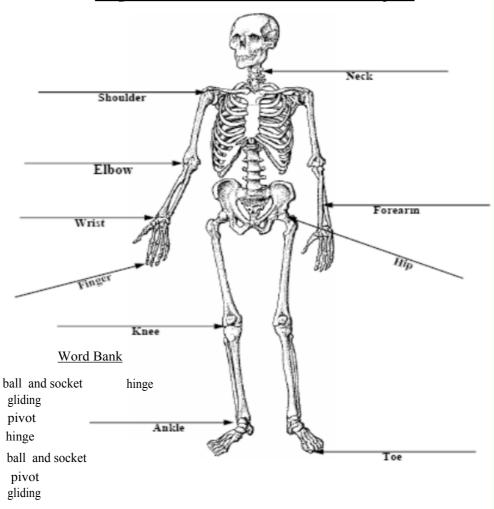




#### LEG BONE'S CONNECTED TO THE HIP BONE

The place where two or more bones meet is called a joint. Joints are either movable or immovable. There are four kinds of movable joints: hinge, pivot, gliding and ball-and-socket. Label each joint on the skeleton below.

#### Drag the word from the word bank to label each joint.







**Created By** 



In addition to bones...

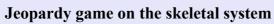
Sinovial fluid: lubricant that prevents bones from wearing down.

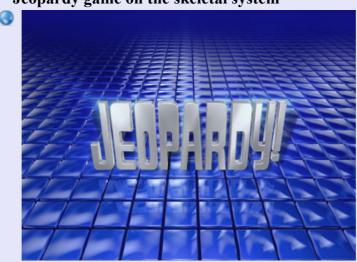
Ligaments: connective tissue that connects two bones.

Tendons: connect bone to muscle.

<u>Cartilage</u>: firm, rubbery substance that helps protect bones. It also provides structure for ears, nose, ...

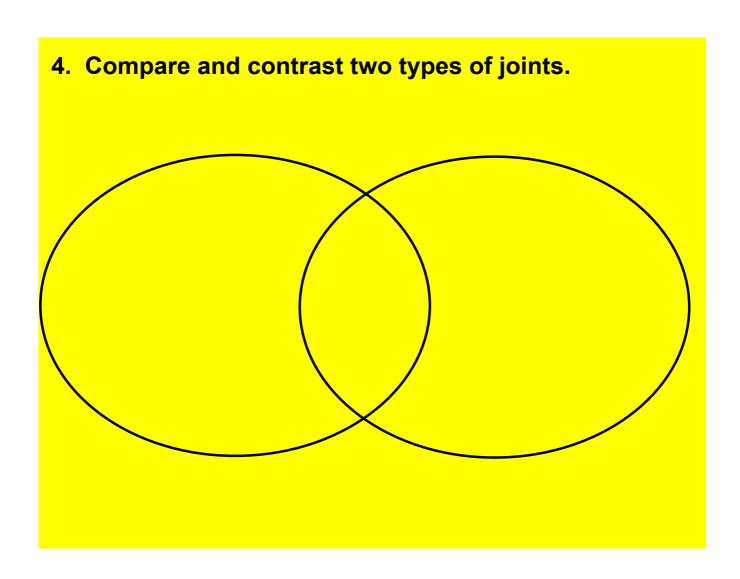








1. Name five functions of the skeleton:				
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2. Explain why a adult.	ın infant has	more cartila	ige than an	

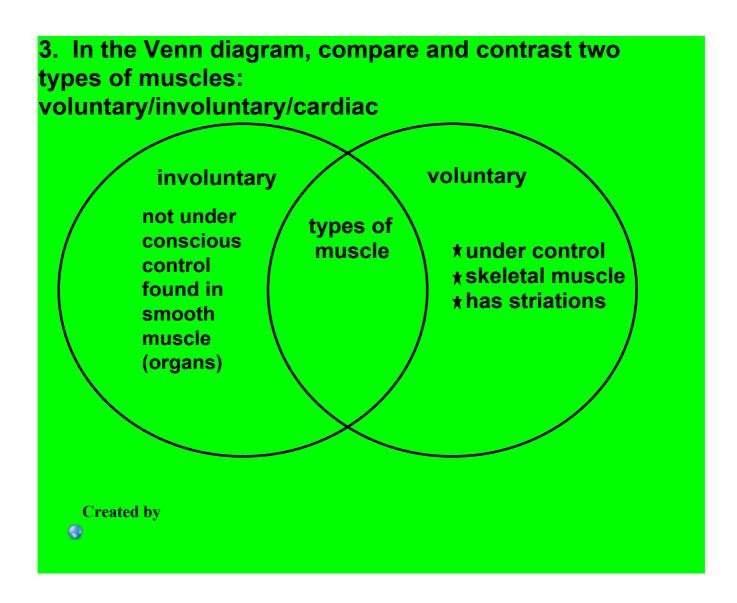


## 1. Name five functions of the skeleton. The function of the skeleton is to:

- **★** Give the body shape and support
- \* Protect internal organs
- ★ Enable you to move
- \* Produce blood cells
- **★** Store certain materials until your body needs them

### 2. Explain why an infant has more cartilage than an adult.

An infant has more cartilage than an adult because as the infant grows the cartilage turns to bone.



#### **Funny Bones Review Game**

### You need to know the following terms:

Long Bones Short Bones
Spongy Bone Marrow
Ligament Tendon
Immovable Joint Pivot Joint

Irregular Bones
Joint
Ball and Socket Joint
Gliding Joint
Flat Bones
Cartilage
Hinge Joint

#### You should also know:

The functions of the skeletal system
The bones of the skeletal system

