

WELCOME TO THE ONLINE CLASS

SESSION NO.: 3

CLASS: 5

SUBJECT: SCIENCE

CHAPTER NUMBER: 9

CHAPTER NAME: OUR SKELETAL SYSTEM

**SUB TOPIC: THE SKELETON- THE RIB CAGE, THE LIMBS,
FUNCTIONS OF THE SKELETON**

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE

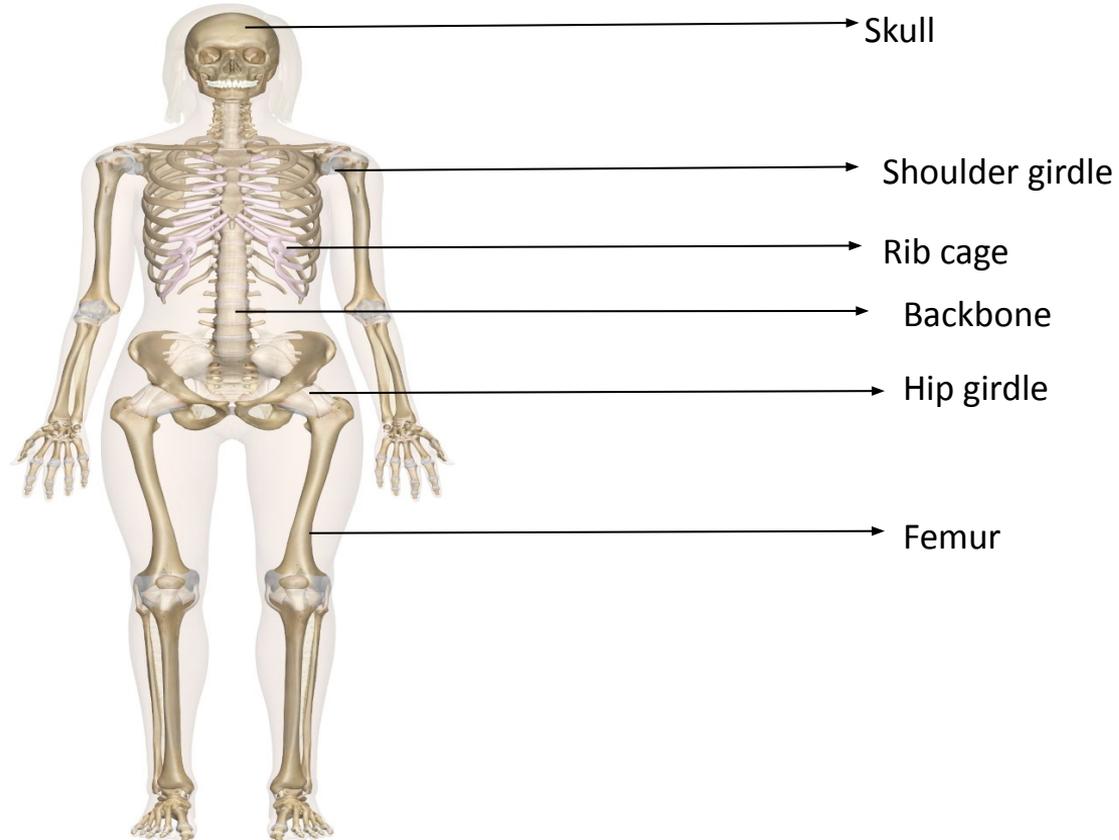
To enable the learner to:

- **recognize the different kinds of bones found in our skeleton**
- **learn about the function of each bone.**
- **know the importance of the skeleton.**

LET'S RECAP

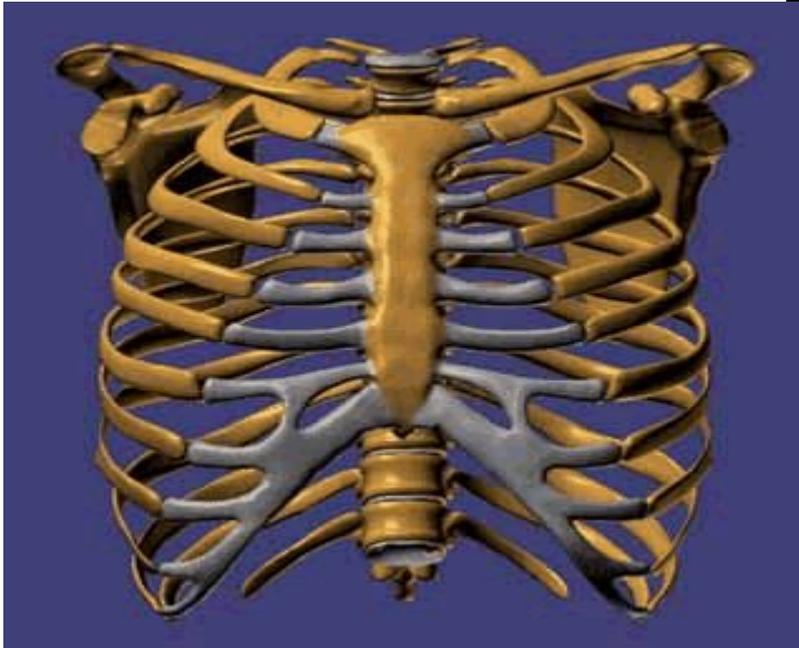
- _____ protects the delicate spinal cord. (Fill in the blanks)
- The backbone is made up of _____ vertebrae.(Fill in the blanks)
- There are _____ bones in the facial region.(Fill in the blanks)
- _____ : 22 bones :: Spine : 33 bones (Complete the series)
- How many bones are there in the human body?
- The limbs are attached to two pairs of girdles. (True/False)

THE SKELETON



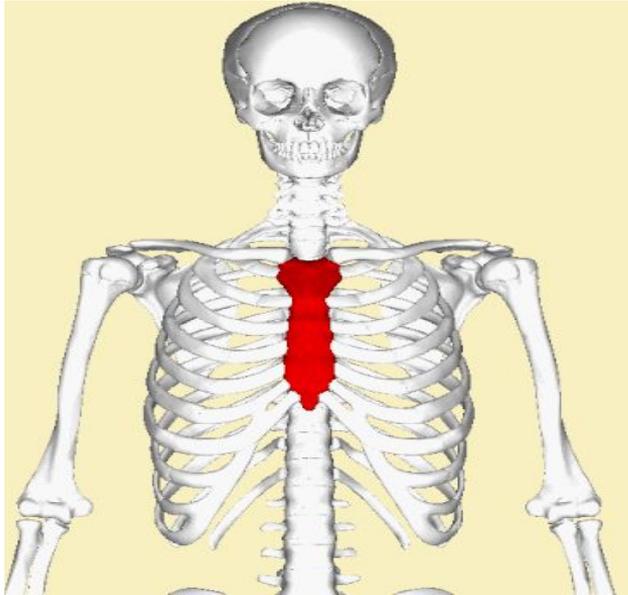
THE RIB CAGE

- There are 12 pairs of bow-shaped ribs which form a cage and encloses the heart and the lungs.

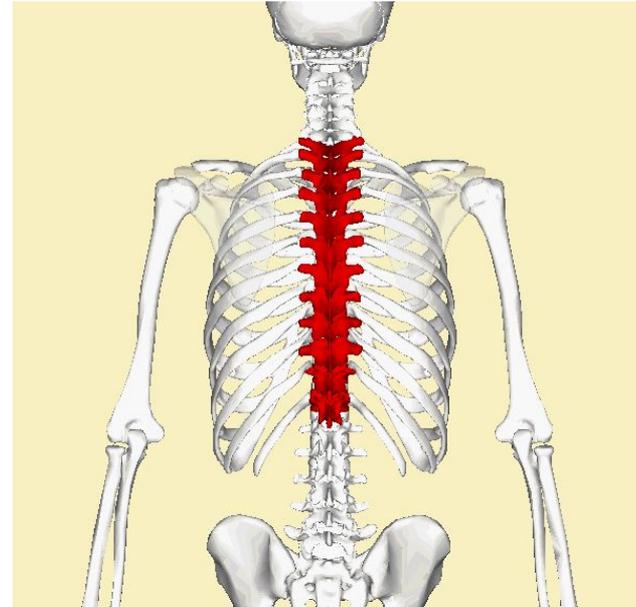


THE RIB CAGE

- The ribs are delicate, curved bones which are joined to the backbone and the breastbone.



BREASTBONE

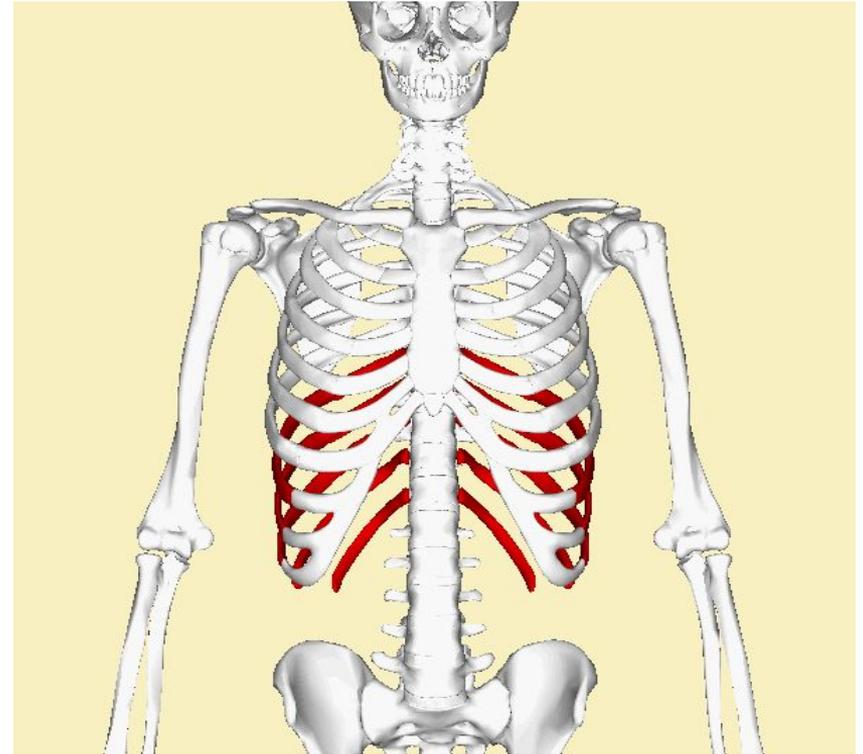
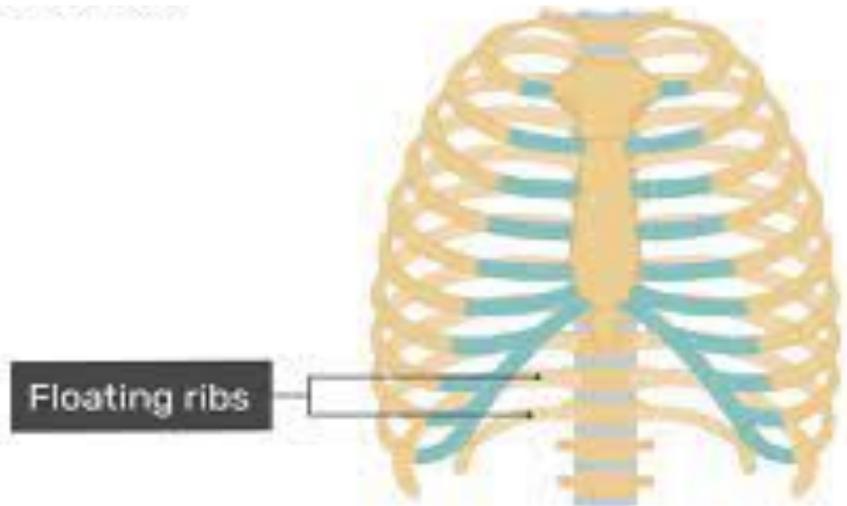


BACKBONE

THE RIB CAGE

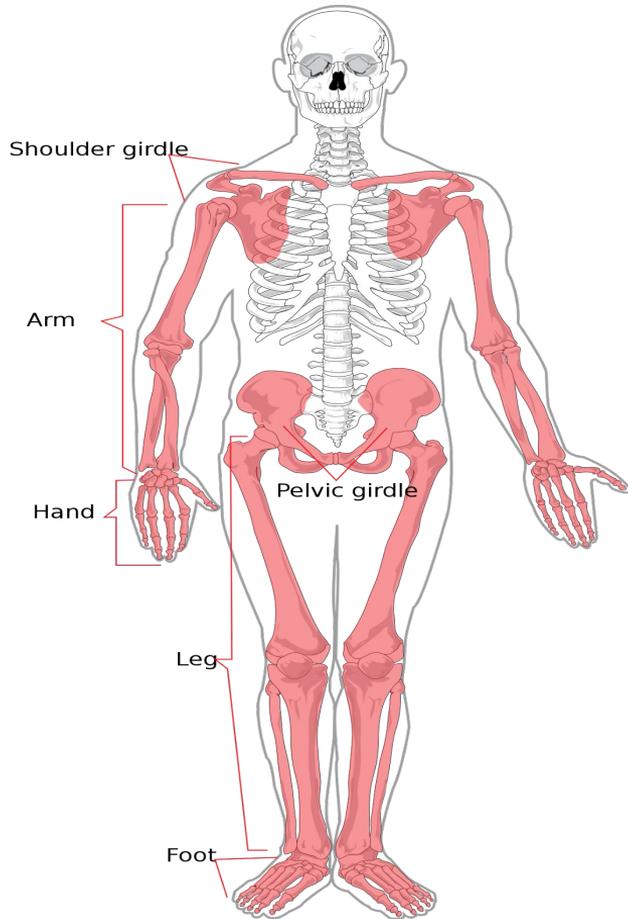
- The lowest two pairs called floating ribs are joined only to the backbone.

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FLOATING RIBS

THE LIMBS



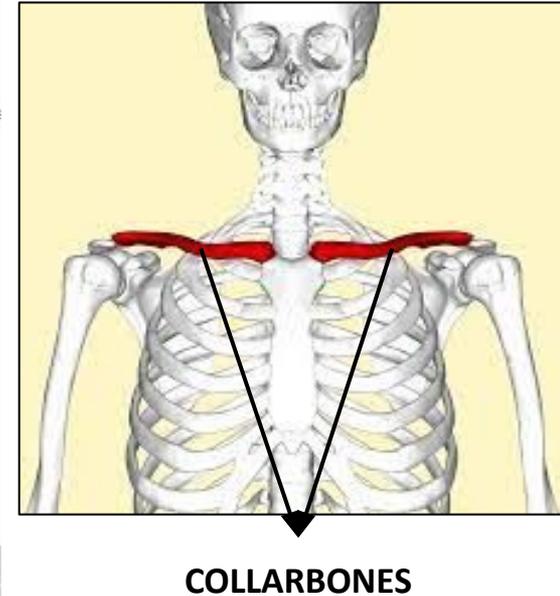
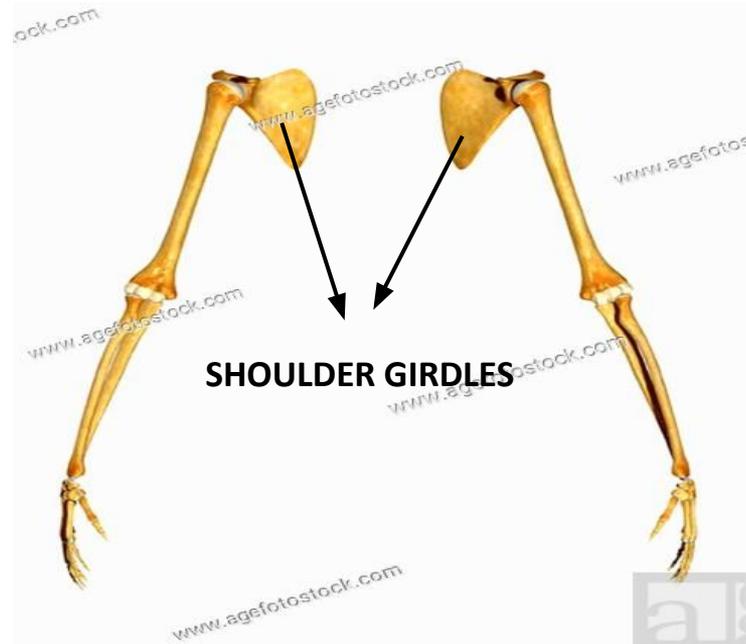
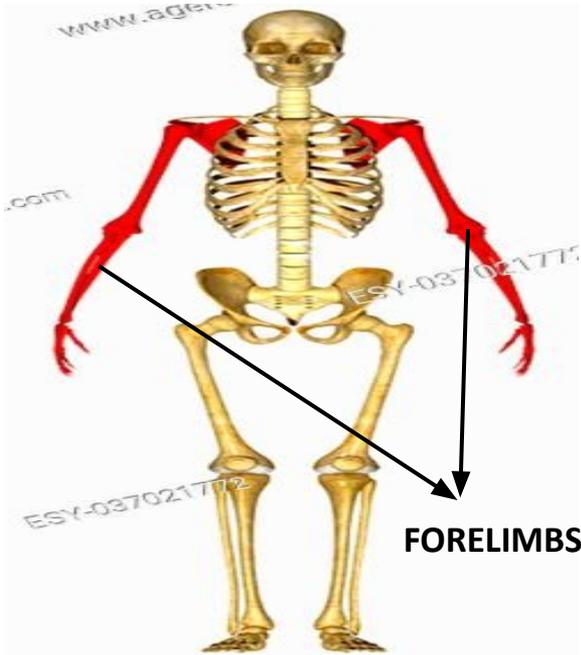
FORELIMBS



HINDLIMBS

THE FORELIMBS

- The forelimbs or the arms are joined to spine with the help of the shoulder girdle which consist of a pair of shoulder blades and a pair of collarbones.



THE HINDLIMBS

- The powerful thigh bone called femur bears the weight of the whole body.
- Femur is the longest bone in human body.



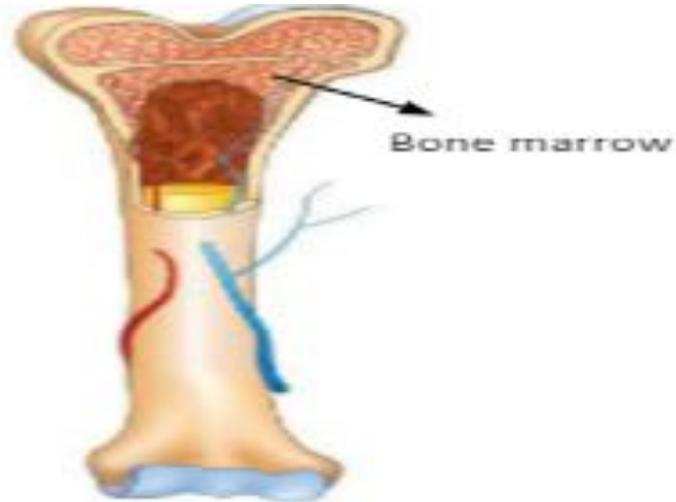
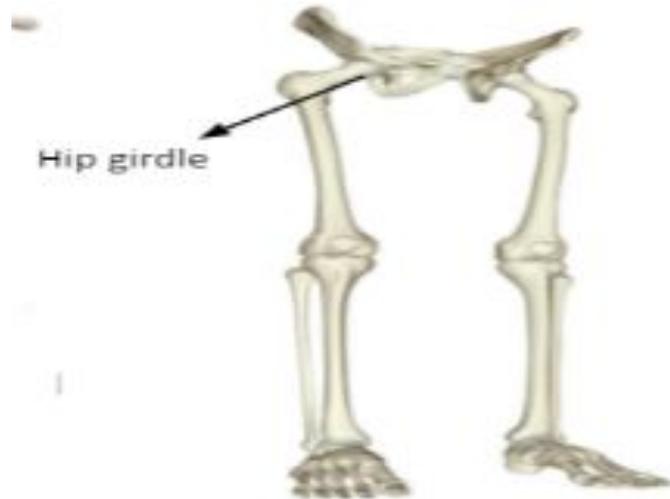
HINDLIMBS



FEMUR

THE HINDLIMBS

- It fits into the hip girdle with a ball and socket joint and is connected to the lower leg at the knee joint.
- The long bones of the skeleton are hollow and are filled with a soft fatty substance called bone marrow.



FUNCTIONS OF THE SKELETON

- It gives shape, strength and support to our body.
- It also protects our internal organs.
- The skull protects the delicate brain.
- The eyeballs rest inside the bony eye sockets.



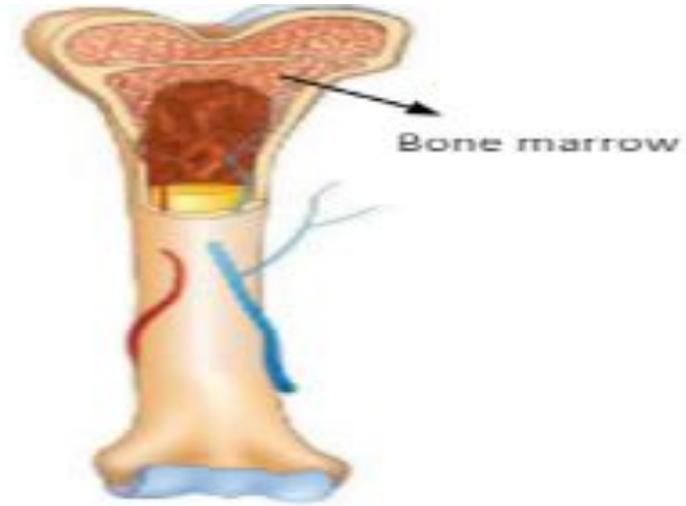
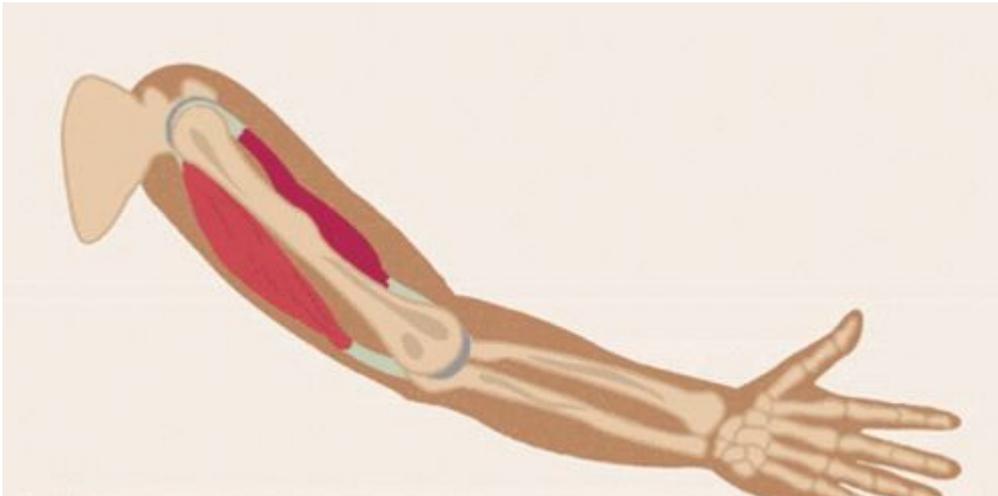
FUNCTIONS OF THE SKELETON

- The backbone protects the spinal cord.
- The rib cage protects the lungs and the heart.
- The hip girdle protects the urinary bladder.



FUNCTIONS OF THE SKELETON

- Muscles are attached to bones and make movement possible.
- White blood cells and red blood cells are produced by the bone marrow in hollow bones.
- White blood cells fight for an organism that invade our body.



SUMMARY

- **There are 12 pairs of bow-shaped bones which form rib cage.**
- **Rib cage protects the internal organs like heart, lungs, etc.**
- **There are two types of limbs- forelimbs and hindlimbs.**
- **Femur is the longest bone in human body.**
- **Skeleton gives shape, strength and support to our body.**

READY FOR A
QUIZ ?

1. The soft, spongy material found inside the cavities of long bones.

Ans: Bone marrow

2. The _____ ribs are joined only to the backbone.

Ans: Floating

3. Bow-shaped bones that encloses the heart and the lungs.

Ans: The rib cage

4. The forelimbs are attached to the spine with the help of the _____.

Ans: Shoulder girdle

HOMEWORK

Do the oral Q & A of page no. 85.

LEARNING OUTCOME

The learner will be able to:

- **recognize the different kinds of bones found in our skeleton**
- **learn about the function of each bone.**
- **know the importance of the skeleton.**

THANKING YOU
ODM EDUCATIONAL GROUP