


# Skeletal System WebQuest

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

Use the following website to answer the questions. <http://kidshealth.org/kid/htbw/bones.html>

## Page 1

1. True or False. The bones in your body are alive. They are always changing.
2. What is the name of the thin, dense membrane that covers the outer surface of the bone? \_\_\_\_\_
3. What are two characteristics of compact bone? \_\_\_\_\_ and \_\_\_\_\_
4. True or False. Cancellous bone is harder than compact bone.
5. What is the main function of bone marrow? \_\_\_\_\_
6. Click on this link  to view the diagram of a bone. Answer the following questions.

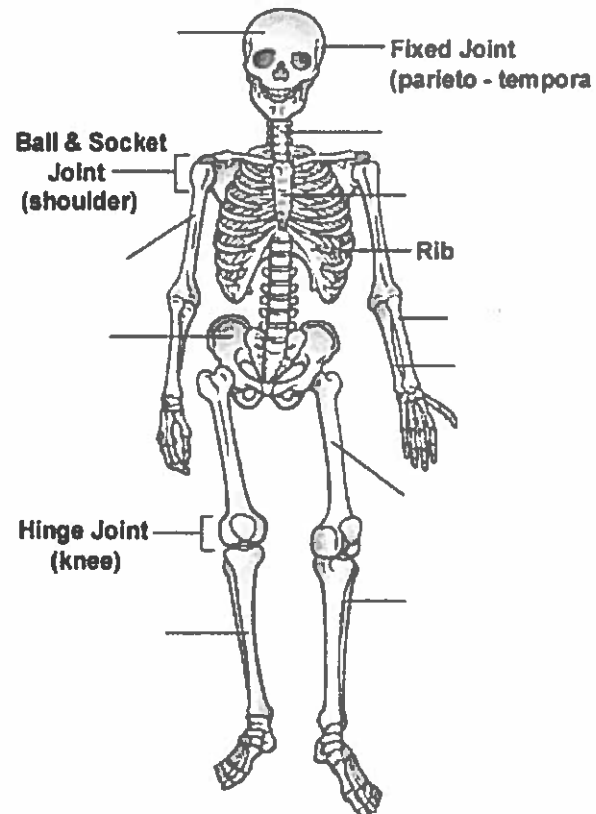
- a. The periosteum of the bone helps to \_\_\_\_\_ bone tissue.
- b. Compact bone is \_\_\_\_\_ in colour.
- c. Another name for cancellous bone is \_\_\_\_\_ bone.
- d. Bone marrow makes \_\_\_\_\_ blood cells, \_\_\_\_\_ blood cells and \_\_\_\_\_.

## Page 2

1. Approximately how many bones did you have as a baby? \_\_\_\_\_
2. How many bones do you have as an adult? \_\_\_\_\_
3. What happens to your bones as you get older?
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_
4. At what age do our bones stop growing in length? \_\_\_\_\_
5. Watch the video, "Getting an X-ray".
  - a. Why do you have to take off all jewellery and metal objects? \_\_\_\_\_
  - b. Have you had an x-ray before? If so, why?  
\_\_\_\_\_

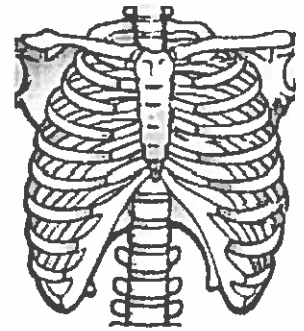
## Page 3

1. How many bone is your vertebrae comprised of? \_\_\_\_\_
2. Your cervical vertebrae is comprised of \_\_\_\_\_ bones. These bones are in the back of your neck and help support your head and neck.
3. Your thoracic vertebrae is comprised of \_\_\_\_\_ bones. They help to anchor your \_\_\_\_\_ in place.
4. Below your thoracic vertebrae are \_\_\_\_\_ lumbar bones.
5. Finally the \_\_\_\_\_ is made up of five vertebrae that is fused together to form one bone and the coccyx which is made of \_\_\_\_\_ fused bones.
6. What are two functions of disks that are found between each vertebrae?  
\_\_\_\_\_  
\_\_\_\_\_
7. Label the missing bones on the diagram.



Page 4

1. What three organs do your ribs protect?  
a. \_\_\_\_\_ b. \_\_\_\_\_ c. \_\_\_\_\_
2. Approximately, how many pairs of ribs do you have? \_\_\_\_\_
3. What type of vertebrae hold your ribs in place?  
a. Cervical    b. thoracic    c. lumbar    d. sacral    e. coxygeal
4. Why are the last two ribs called floating ribs?  
\_\_\_\_\_



Page 5




1. What is the smallest bone in your body? \_\_\_\_\_
2. What is the only bone in your head you can move? \_\_\_\_\_
3. How do sutures in a baby's head help pass through the birth canal?  
\_\_\_\_\_
4. What is another name for the shoulder blade? \_\_\_\_\_
5. What three bones comprise the arm?  
a. \_\_\_\_\_ b. \_\_\_\_\_ c. \_\_\_\_\_
6. How many bones make up your fingers? \_\_\_\_\_
7. How many bones make up your thumbs? \_\_\_\_\_

Page 6

1. What three systems of the body does the pelvis protect?  
a. \_\_\_\_\_ b. \_\_\_\_\_ c. \_\_\_\_\_
2. What is the longest and strongest bone in the body? \_\_\_\_\_
3. What is another name for the knee cap? \_\_\_\_\_
4. What are the three bones that comprise the leg?  
a. \_\_\_\_\_ b. \_\_\_\_\_ c. \_\_\_\_\_
5. Why are the leg and arm bones wider at the ends than in the middle? \_\_\_\_\_
6. What bone protects the knee joint? \_\_\_\_\_
7. How many bones do we have in our feet and ankles? \_\_\_\_\_
8. How many bones do we have in each toe? \_\_\_\_\_

Page 7

1. Define the term joint. \_\_\_\_\_
2. True or False. All joints move.
3. Provide an example of a fixed joint that can be found in your skull. \_\_\_\_\_
4. Click on the following image  to answer the questions.

- a. True or False. The knee is a moving joint.
  - b. True or False. Cartilage is found in the middle of bones.
  - c. True or False. Muscles only pull, they don't push.
  - d. True or False. The heart signals muscles in your arms and legs to contract and relax.
  - e. True or False. Ligaments connect bone to bone.
  - f. True or False. Tendons connect bone to muscle.
  - g. True or False. The knee is a hinge joint and moves in many directions.
5. Besides your knee, what is another example of a hinge joint? \_\_\_\_\_

6. Provide two locations in the body where you can find a ball-and-socket joint.

a. \_\_\_\_\_ b. \_\_\_\_\_

7. \_\_\_\_\_ is a special fluid found in the joints cavity that help them move freely.

**Page 8**

List four ways you can help protect your bones and keep them healthy.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

Click on the blue link "broken bones"

and answer the following questions.

1. What is another name for a broken bone?

\_\_\_\_\_

Watch the video, "casts".

2. What are the layers of a cast?

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

3. What does an orthopedic doctor specialize in? \_\_\_\_\_

4. What are three reasons you may contact your doctor regarding your cast?

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

5. What can you do if you have an itch inside your cast?

- a. \_\_\_\_\_
- b. \_\_\_\_\_

6. Define the following:

a. Complete fracture:

\_\_\_\_\_

b. Greenstick fracture:

\_\_\_\_\_

c. Single fracture:

\_\_\_\_\_

d. Comminuted fracture:

\_\_\_\_\_

e. Bowing fracture:

\_\_\_\_\_

f. Open fracture:

\_\_\_\_\_

