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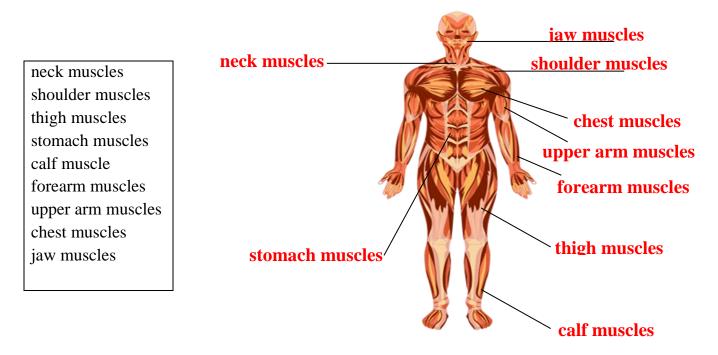
دولة الامارات العربية المتحدة مدرسة الوردية الخاصة / حلوان المرخصة من وزارة التربية والتعليم تحت رقم ( 50 )

Our Vision: Innovative education for a knowledge, pioneering, and global society.

# Department of Science 2018 - 2019 Second Term: Revision Worksheet - 1 L-1.6, 1.7 & 1.8 Muscles and bones

Grade 4..... Date: ..../2019

### Q.1 Label each muscle group.



#### Q.2 Complete the following sentences using the words in the box

bicep	relaxed	mov	/e	straighten	contracted	
	arm	joint	muscles	s bones	tricep	)

One of the key jobs of the skeleton is to allow us to <u>move</u>.

<u>Muscles</u> attach to the bones and get either shorter or longer causing the bones

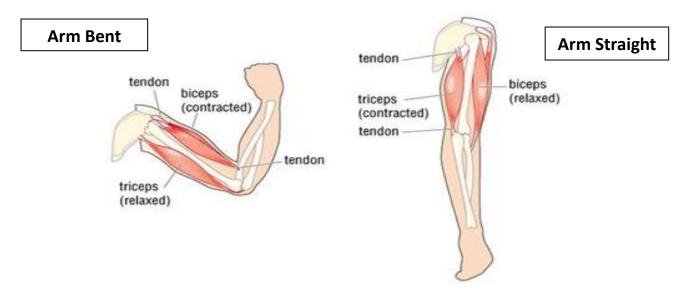
to move. When the muscles get shorter they are said to be <u>contracted</u> and

when they get longer they are said to be <u>relaxed</u>. Where <u>bones</u>

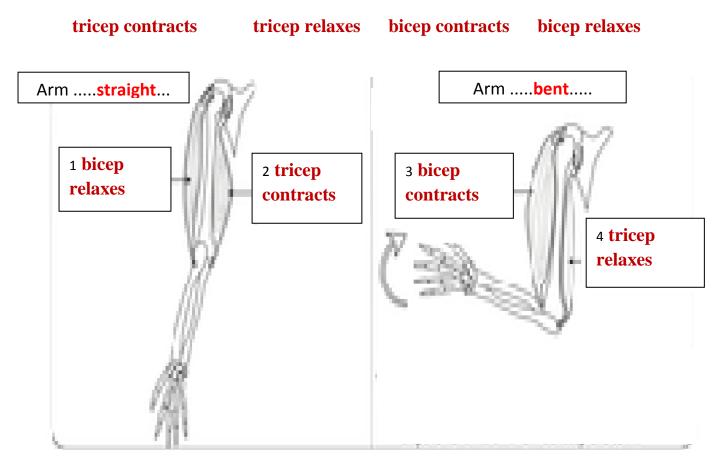
meet is known as a \_\_\_\_\_\_joint \_\_\_\_\_. The elbow joint involves two main muscles, the

**<u>bicep</u>** and the <u>tricep</u>. These muscles work together to allow us

to bend and <u>straighten</u> our <u>arm</u>.



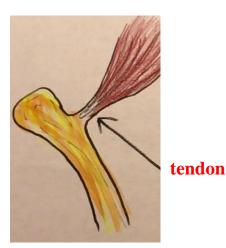
Q.3. In the two diagrams below, label the pictures as 'Arm Bent' and 'Arm Straight.' Colour in the bicep muscle pink and tricep muscle blue. Then fill in the four boxes with one of these labels.

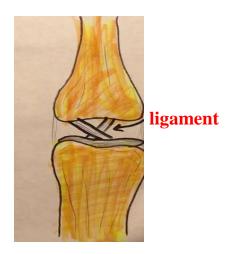


#### Q.4. Choose the correct answer.

- a) The smallest muscle in the body is in your (ear) buttock ).
- b) The largest muscle in the body is in your ( **ear (buttock)**.
- c) Your body contains (more) less ) than 600 muscles.
- d) The strongest muscle is in your (jaw) eye ).

- e) When muscle contracts, it (shortens)/lengthens).
- f) Muscles work ( individually (in pairs).
- g) Muscles can ( **push pull** on bones, but they can't (**push**/ **pull** ) them back to their original position.
- h) The most active muscles are those controlling (eye) lip ) movements.
- i) The muscle that never get tired is the **(heart)** leg ) muscle.
- j) Muscles have to (shorten) lengthen ) to make a bone move.
- k) Three muscle types are cardiac, smooth and **(skeletal) heart** ).
- 1) Your heart is a **(cardiac)**/ **skeletal** ) muscle.
- Q.5. What does each arrow point to? Write ligament or tendon.





#### Complete the sentences based on the picture.

- a) Ligaments connect <u>bone</u> to <u>bone</u>.
- b) Tendons connect \_\_\_\_\_\_ to \_\_\_\_\_ to \_\_\_\_\_\_.

#### Q.6. Observe the picture and complete the sentences.

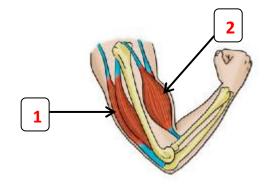
The arm is \_\_\_\_\_\_ (straight / bent ).

Muscle 2 is <u>contracted</u> (contracted / relaxed ).

It is called the <u>biceps</u> (biceps / triceps ).

Muscle 1 is <u>relaxed</u> (contracted/ relaxed).

It is called the <u>triceps</u> (biceps / triceps ).



## Q.7. Read the text and answer the questions on the right.

_		
1	Your muscles have one main job to do in	1. What are involuntary muscles?
1	your body. They help you move. They al-	Muscles which we do not control are called
Y	so help give your body its shape. You	involuntary muscles. E.g. heart muscles
	control many of the muscles in your	2. Name three things involuntary muscles
1	body. The muscles you control are	A
	called voluniary muscles. You use volun-	do for your body?
1	tary muscles when you wave your arms	Involuntary muscles help us breathe, keep
	or turn your head. There are other mus-	our heart beating and our eyes blinking.
	cles in your body that you do not	
	control. They are called involuntary	3. What are tendons?
	muscles. Involuntary muscles help you	Tendons are tough tissues that connect
	breathe, and keep your heart beating	muscles to bones.
	and your eyes blinking. Your muscles	
	change shape when they are at work.	4. What are voluntary muscles?
1	Muscles contract, or become shorter	Muscles which we control are called
1	and thicker, when they are working.	voluntary muscles. E.g. arm muscles
	Your bones and muscles work together	
1	to help you move. They are connected	5. What do muscles do when they
	by tissues called <b>tendons</b> . When your	contract?
1	muscle contracts, the tendon causes	When muscles contract, the tendon
	the body to move.	and bone (or body) move.
7		+

## Q.8. Tick ✓ the best answer.

1- What would happen if muscles were not attached to bones?

We would not be able to walk.

We would not be able to move our arms.

 $\checkmark$  We would not be able to have any movement.

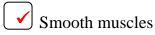
2- What is the difference between voluntary and involuntary muscles?

Voluntary muscles cannot be consciously controlled, such as cardiac muscles. Involuntary muscles can be controlled by an individual's will, such as skeletal muscles.

Voluntary muscles can be consciously controlled, such as cardiac muscles. Involuntary muscles cannot be controlled by an individual's will, such as skeletal muscles.

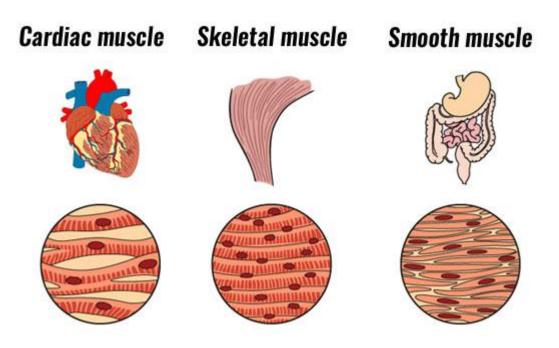
Voluntary muscles can be consciously controlled, such as skeletal muscles. Involuntary muscles cannot be controlled by an individual's will, such as cardiac muscles.

3- The intestines, walls of the stomach and blood vessels are made up of:



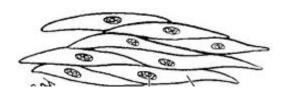
Cardiac muscles

Skeletal muscles

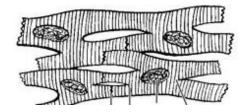


# Q.9. Identify the type of muscle tissue.

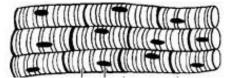
Write: Skeletal muscle tissue, Smooth muscle tissue, Cardiac muscle tissue



smooth muscle tissue



cardiac muscle tissue



skeletal muscle tissue