

Note from SI:

We are starting the muscular system! I highly suggest utilizing a lot of your lab visuals to make connections in this chapter.

Reminders(Skeletal system):

- Osteoclasts:
- Growth hormone:
- Thyroid hormone: watches activity of growth hormone
- <u>Testosterone:</u> a hormone that is produced used for maintaining and gaining bone mass in men
 - *Excess hormones cause abnormal growth*
- Parathyroid hormone:
- Osteoblasts:

Vocab:

•	Muscle tissue (3 types): skeletal, cardiac, smooth
•	Skeletal muscle (voluntary):
•	Skeletal muscle fibers: contract to help move bones and keep body shape
•	Voluntary muscles:
•	Cardiac muscle (involuntary): only in heart, makes up heart walls, striated
•	Involuntary:
•	Smooth muscle (involuntary):
•	Muscle tissue characteristics: excitability, contractility, elasticity, extensibility
•	Muscle functions:
•	Skeletal muscle anatomy:
•	Actin filaments:
•	Myosin filaments:
•	Thick filaments:
•	Thin filaments:
•	Tropin:

Questions:

1)	What	muscle is the longest of all muscles due to its vast contractibility?
	a)	Smooth muscle
	b)	Cardiac muscle
	c)	Skeletal muscle
	d)	Involuntary muscle
2)	What	form of muscle cannot be controlled due to its connections with the nervous
	systen	n?
	a)	Voluntary muscle
	b)	Controlled muscle
	c)	Myofibril muscle
	d)	Involuntary muscle
3)	What	are examples of muscle tissue characteristics?
	a)	Excitability, contractility, flexibility, transitional properties
	b)	Excitability, contractility, elasticity, extensibility
	c)	Excitability, shrinking, stability, extensibility
	d)	Contractility, elasticity, stability, transitional properties
4)	What	is the plasma membrane of a muscle cell called?
	a)	Endomysium
	b)	Sarcoplasm
	c)	Sarcolemma
	d)	Myofibril

5)	The perimysium surrounds which of the following structures?		
	a)	Whole muscle	
	b)	Myofibril	
	c)	Muscle fiber	
	d)	Fascicle	
6)	The at	tachment of a muscle to a movable bone is known as the:	
	a)	Origin	
	b)	Insertion	
	c)	Joint	
	d)	Ligament	
7)	The co	onnective tissue covering surrounding an entire muscle is called the:	
	a)	Endomysium	
	b)	Sarcolemma	
	c)	Perimysium	
	d)	Epimysium	
8)	What	molecule stores oxygen in muscle cells?	
	a)	Hemoglobin	
	b)	Myosin	
	c)	Myoglobin	
	d)	Glycogen	

Visuals:



