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Cycle	3: B10	logy Jan	18 –	March	П

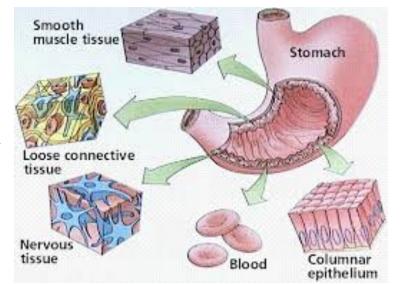
Biology Study Guide Cycle 3: Weeks 1 & 2

All living organisms are but leaves on the same tree of life. The various functions of plants and animals and their specialized organs are manifestations of the same living matter. This adapts itself to different jobs and circumstances, but operates on the same basic principles. Muscle contraction is only one of these adaptations. In principle it would not matter whether we studied nerve, kidney or muscle to understand the basic principles of life. In practice, however, it matters a great deal.

— Albert Szent-Gyorgyi

Overview and Objectives

In this cycle of study we will build on our knowledge and understanding of cells and cellular structures. We will examine how cells, together, make larger structures called tissues. These tissues make up larger structures called organs that then make up organ systems. We will examine these levels of organization and relate their structure to their function. Organs and organ systems function together to provide homeostasis in organisms. The functioning of organs depends



Essential Question: How do the processes that

upon multiple organ systems. (USOE Std. 3.1-2)

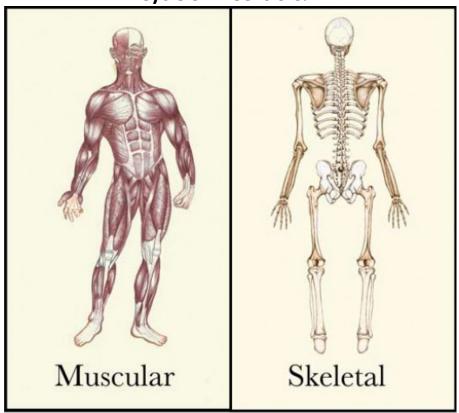
happen at a cellular level influence the structure, functions, and behavior at the tissue, organ, organ system, and organism level?

Week 1: DUE Friday, January 22

1. Read the quotes and overview with the class and <u>mark them up</u> .
2. Choose your organ for your 3-D model and presentation (my organ:) This model and presentation is due FEB 8. You will present over the following several weeks as we cover the related organ systems.
3. Receive your rubric for your 3-D model and begin brainstorming ideas for and researching the structure and function of your organ.
4. Participate in and take notes on the lesson: Levels of Organization
5. Participate in and take notes on the lesson: 4 Tissue Types.
6. Complete your graphic organizer on the 4 Tissue Types.
7. Complete the assigned reading from the Biology teythook: nn

Nam	ne	Period:	Cycle 3: Biology Jan 18 – March 11
Wee	k 2: DUE Friday, Jan	uary 29	
endo	8. Participat ocrine balance.	e in and take notes on the lesso	on: Homeostasis: the respiratory, excretory, and
writi	9. View the	<u> </u>	ment titled: Losing it, and discuss, as a class and in
	10. Complet	te the Tissue types quiz/worksh	neet.
	11. Participa	ate in and take notes on the less	son: The 11 Body Systems
	12. Create y	our life-sized body outline/moo	del.
	13. Participa	ate in and take notes on the less	son: What is the Anatomical Position?
	14. Watch th	ne instructional video: "Anaton	nical terms of direction and planes of section"
	15. Complet	e your graphic organizer on an	atomical planes of direction.
How (1= of 1. 2. 3. 4.		the information in the lesson learned some, 5=would be able on	e to teach a peer about it)
(1=1) 1. 2. 3. 4. 5. How (1 = color) 1. 2. 3. 4.	Assignment #Assignment #Assignment #Assignment #Assignment #Assignment #Assignment #Assignment #	score:	

Biology Study Guide Cycle 3: Weeks 3 & 4



Overview and Objectives

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In this cycle of study we will build on our knowledge and understanding of cells and cellular structures. We will examine how cells, together, make larger structures called tissues. These tissues make up larger structures called organs that then make up organ systems. We will examine these levels of organization and relate their structure to their function. Organs and organ systems function together to provide homeostasis in organisms. The functioning of organs depends upon multiple organ systems. (USOE Std. 3.1-2)

<u>Essential Question:</u> How do the processes that happen at a cellular level influence the structure, functions, and behavior at the tissue, organ, organ system, and organism level?

Week 3: L	OUE Friday, February, 5
	16. Participate in the lesson: The Skeletal and Muscular System
	17. Add Skeletal components to your personal body model.
	18. Added Muscle to your personal body model.
	19. Participate in the Lab Activity: Muscles and Bones
ready on N	20. All of my research and ideas for my 3-D Organ model is complete; I will have my model Monday, February 8.
	21. Complete the assigned reading from the Biology textbook: pp

Name	Period:	Cycle 3: Biology Jan 18 – March 11
Week 4: DUE Friday,	February, 12	
22. My 3	B-D Organ model is complete!	
23. Parti	cipate in the student presentation on th	ne Skeletal and/or Muscular systems.
24. Com	plete the assigned reading from the Bio	ology textbook: pp
25. Parti	cipate in and take notes on the lesson:	The Integumentary system.
26. Parti	cipate in the student presentation on th	ne Skin (the Integument).
27. Parti	cipate in and take notes on the lesson:	The Nervous System
28. Com	plete the assigned reading from the Bio	ology textbook: pp
29. Com	plete the lesson and activity: Pain!	
30. Adde	ed Integument and Nervous system org	gans to my body model.