Name:	Date:	Period:
	- 4101	

Unit 3 & 9 Week Test Review: Cell Structure and Biomolecules

By the end of class, check the ones you feel confident on and study the others at home.

- 1. ___List the levels of organization in an organism from cell to organism
- 2. ___Identify types of cells (prokaryote or eukaryote)
- 3. Label prokaryotic and eukaryotic cell structures
- 4. ___Identify differences in plant, animal and bacterial cells

Levels of organization: (simplest to complex)

1. Organelles ->	>	>	
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Word bank for #1

Tissue	Organism	Organs
Cells	Organ System	

- 2. You discover a blue mark on your body after a long day. When you press on the mark, it is painful. You decide that this mark is probably a bruise from when you were playing with friends. Using this information, answer the following.
 - a. Your skin would be classified in which organizational level? _____
 - b. For your skin to heal, what are the levels of organization that need to be part of the healing process?



- 3. Tell me one way you can tell this is not a plant cell?
- 4. Tell me one way you can tell this is not a bacteria cell?
- 5. a. What is the difference between a prokaryote and eukaryote?
 - b. What is the difference between a plant and animal cell?
- 6. How are bacteria and prokaryotes related?
- 7. Do prokaryotes have a nucleus?

Name:	Date:	Period:
8. What is the job of mitochor	ndria in plant and animal ce	ills?
A) to control what enters theB) to break down wastesC) break down food for energyD) Instruct ribosomes to make	ЭУ	
9. Which organelle is not mer prokaryotes?	mbrane bound (surrounded	I by a membrane) and is found in
A) mitochondriaB) lysosomesC) Golgi apparatusD) ribosomes		
10. What do ALL cells have in	n common?	
A) nucleus B) genetic material, DNA C) ability to move D) ability to make energy		
11. What organelle can be fo	ound in both plants and pro	karyotes (bacteria), but not animal cells?
A) cell wall B) cell membrane C) cytoplasm D) ribosome		
12. If looking at a unicellular prokaryote?	organism under the micros	cope, how would you know it is NOT a
A) it would have ribosomes B) it would have a cell wall C) it would have a nucleus D) it would have DNA		
13. Why must ALL cells, pro-	karyotes and eukaryotes, h	ave ribosomes?
14. What two cell organelles	have their own DNA and s	upport the theory of endosymbiosis?
15. Which organelle creates	energy for plant cells only?	
16. Which organelle creates	energy for both plants and	animal cells?

Name:	Date:	Peri	od:
17. Circle all the orga	ns below:		
Bone	Skeleton	Heart	Kidney
Skin cell	Skin	Tissue	Bacteria
18. How does DNA co	ode for traits in an organis	m?	
19. How does DNA co	ompare in all living things?	,	
20. Which biomolecul	e is for insulation?		
21. Which biomolecul	e is for immediate (quick)	energy?	
22. Which biomolecul	e is for building cells, tissu	ue and muscle?	
23. What are polymers	s made of?		
24. Which biomolecule	e is formed by chains of ar	nino acids?	
25. Which biomolecul	e is formed by saccharide	s?	
26. Enzymes are in w	rhich biomolecule group?		
27. Which biomolecul	e is for long term energy s	storage?	
28. Which biomolecul	e is for genetic information	n?	
29. Which biomolecul	e contains instructions for	making proteins?	
30. Small subunits of	polymers are called	·	