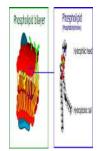
Study Guide	Name
Cytology	Block
always, save the study guides to pro	prepare for the test, it will be very helpful to you. As epare for the final exam. If you need help, I am alless I have a meeting. Please see me during class if I like to schedule time to get help.
Italicized questions do not require	a written answer.
1. Cytology is the study of	·
2. Antibiotics work to destroy bact	teria. Antibiotics can block production of the
by	shutting down ribosomes OR can interfere with the
production of the outermost	part of a bacterial cell called the
•	tion of all cell parts listed in the Cytology packet. Be able the nucleus if given a <u>picture of a cell</u> .
4a. List main <b>differences</b> between	prokaryotes and eukaryotes.
4b. List all features and characteriseukaryotes)	stics <b>common</b> to all cell types (both prokaryotes and
4 c. Is a virus considered a cell?	
5. a)What is the difference between reticulum?	n rough endoplasmic reticulum and smooth endoplasmic
5b) Common to both, RER and SE	R, is that they are systems of that carry the
contents (h	int: what does "endo" mean).

10/12/16

	are the 3 forms of pro	skaryotic cells?	
name: shape:	spirillium spiral		
Know wh	hat each form means (	(for example, know that be	acillus means rod shaped)
that you	2 0 0	_	ght match it, make sure you know t the bacterium "Lacto <u>bacillus</u>
	the 5 major Kingdom major life form that is		otist, fungi, and bacteria) which is
A tree, a A humar A eugler A mushr	dandelion and grass an and a frog are both rand, paramecium and aroom and mold are from		Kingdom Kingdom Kingdom Kingdom
7b. Nam	ne one difference betw	veen a bacterial cell and a	cell found in a frog.
7c. Nam tulip.	ne a similarity between	n an <i>E. coli</i> bacterial cell a	and a cell you might find in a
type of a a prokar	nimal cell (or a type o	of plant cell, as above in 7 This is an example of A	es, such as: a bacterial cell with a (c). This is essentially comparing PPLYING the information.  word bank. Not all of the words
will be u	-	The same street and the same street	100 412 01 012 110 010
Word ba	ank: after, before, ha	ting (fearing), inside, lovi	ng, nucleus, outside, true
a	. "endo"	d. "ph	obic"
b	o. "karyote"	e. "eu	,,
c This will	a. "pro" l also help you figure	out the meaning of some	ilic" words

9. Chloroplasts and mitochondria are folded many times internally- why?
10. List the main functions of the cell wall. What is the only kingdom classification that does NOT have organisms with cells containing a cell wall? What's the cell wall made from?
11. The cell wall provides support and shape in a plant cell. What provides structural support in an animal cell?
12. The name of the plastids that convert light energy from the sun into food for a plant and some protists such as euglena are called
13. The organelle responsible for converting food energy into the type of energy that a cell can use (called ATP) is the
14. The organelles responsible for making (or assembling) proteins are
15. The membrane bound organelles responsible for storing digestive enzymes and digesting old cell parts are
16. What is the name of the bacterial cell part that allows bacteria to transfer genetic information such as resistance to antibiotics?
17. A cell that requires a great deal of energy, like a muscle cell might have hundreds of

18. The part below is from a plasma membrane. What is the name of this part? What is the hydrophobic part(s) and what is the hydrophilic part(s)?



(Know the meaning of hydrophobic and hydrophilic.)

19. How do ribosomes, the rough ER and Golgi work together? What gets transported?

20. a) A eukaryotic cell's DNA is found in the \_\_\_\_\_\_.

b) A prokaryote does not have a to store DNA.

21. When you think of cell regulation, think of this part that regulates what enters and leaves a cell:

22. What is the generic term for cell structures that allow eukaryotic cells to function efficiently?

23. Plants store water, waste products and nutrients in a specialized part that could take up half of the cell. This part is the:

24. What are cilia and flagella used for? How can you tell the difference between them?