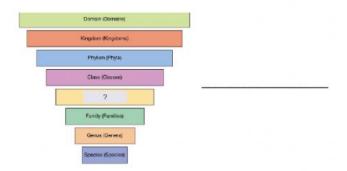
Name: Date: Period:	Student Number:
Prokaryotes, Eu	karyotes, Bacteria, And Viruses
What type of biomolecule are a. Lipids b. Proteins c. Nucleic Acids	enzymes?
Which property is shared by a a. All living things need s b. All living things move c. All living things are ma	unlight ade of 1 or more cells
1. Carboh 2. Lipids	ydrates a. CHON b. CHO Acids c. CHONP
4. An organism is eukaryotic, unicellula. a. Bacteria b. Protista c. Plantae 5. What organelle packages and sortia. Golgi apparatus b. Rough endoplasmic rec. Nucleus	
6. What structure holds the DNA of the a. Capsid b. Cytoplasm c. Ribosomes d. Nucleus	ne cell?

7. What kingdom are viruses in?

c. None of the above

a. Bacteriab. Animalia

- 8. What is the main function of the biomolecule carbohydrates?
 - a. Short-term energy
 - b. Long-term energy
 - c. Muscle-building
- 9. What is the missing category of the taxonomic hierarchy?



10. Select the correct comparison between eukaryotic and prokaryotic cells.

Eukaryotic Cells	Prokaryotic Cells
Membrane-bound nucleus or organelles DNA chromosomes in the nucleus	No nucleus or other membrane-bound organelles DNA chromosome in the cytoplasm

Eukaryotic Cells	Prokaryotic Cells
Membrane-bound nucleus or organelles DNA chromosomes in the cytoplasm	No nucleus or other membrane-bound organelles DNA chromosome in the cytoplasm

Eukaryotic Cells	Prokaryotic Cells
No membrane-bound	Membrane-bound nucleus
nucleus or organelles DNA chromosomes in the	or organelles DNA chromosome in the
cytoplasm	nucleus

Eukaryotic Cells	Prokaryotic Cells
No membrane-bound	 Membrane-bound nucleus
nucleus or organelles	or organelles
 DNA chromosomes in the	DNA chromosome in the
nucleus	nucleus

- 11. What structure do prokaryotic cells, eukaryotic cells, and viruses share?
 - a. Capsid
 - b. Cytoplasm
 - c. Genetic Material
 - d. Nucleus

12. A student has four samples detailed below. Which sample most likely contains a virus?

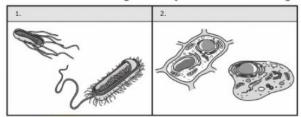
Sample	Nucleus	Chloroplast	Ribosome
Sample 1	Present	Present	Present
Sample 2	Absent	Absent	Present
Sample 3	Absent	Absent	Absent
Sample 4	Present	Absent	Present

- a. Sample 1
- b. Sample 2
- c. Sample 3
- 13. Which of the four samples from question 12 most likely contains plant cells?
 - a. Sample 1
 - b. Sample 2
 - c. Sample 3
- 14. Match the vocabulary words with their definitions

1.	Prokaryotes	 a. Non-living
2.	Eukaryotes	b. No nucleus
3.	Biotic	 c. Do have a nucleus
4.	Abiotic	d. Living

- 15. What are the chloroplasts in plant cells used for?
 - a. Cellular respiration
 - b. Photosynthesis
 - c. Waste management

16. What table heading should you use for the two groups below?



- a. 1. Plant 2. Animal
- b. 1. Protista 2. Eukarya
- c. 1. Prokaryotes 2. Eukaryotes
- 17. What characteristics do protista and animalia have in common?

Motile
 Reproduce sexually
 Photosynthetic

 Motile
 Reproduce sexually
 Photosynthetic

 Motile
 Multicellular
 Photosynthetic

 Motile
 Multicellular
 Photosynthetic

- 18. What part of the virus helps it invade a host?
 - a. Genetic materia
 - b. Envelope
 - c. Spike proteins
- 19. Fill in the chart to match the kingdoms with the correct domains using the word bank

Bacteria	Archaea	Eukarya



20. Fill in the chart to match the correct properties to the biomolecule using the word bank

Biomolecule	Elements	Monomer	Example
Carbohydrates		Monosaccharides	
	СНО		Oil, butter
	CHON		
Nucleic Acids		Nucleotides	DNA

BONUS: Draw a picture of what you want to be when you grow up!