

Cell Theory Quiz – BIO.3a-b

Cell Theory – Complete each of the following statements by filling in the blanks. You may need to use the same word or phrase to complete multiple statements. (3 pts)

- All living things are made of _____.
- The basic unit of structure and function in living things is the _____.
- All cells come from _____.

Match the scientist to his contribution to the cell theory. (5 pts)

- | | |
|-------------------|--|
| — Hooke | A. Concluded that all cells come from other cells |
| — Schleiden | B. Used a homemade microscope to discover bacteria |
| — Schwann | C. Determined that all animals are made of cells |
| — van Leeuwenhoek | D. Determined that all plants are made of cells |
| — Virchow | E. Discovered the “cell” by looking at cork under a microscope |

For the following four questions, refer to the diagram of the experiment at right. (4 pts)

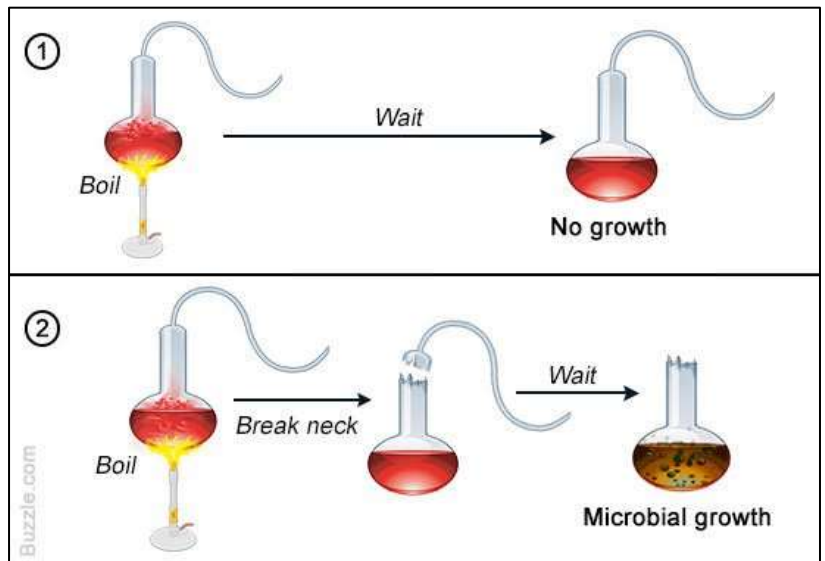
Identify the:

- Independent variable (be specific)

- Dependent variable

- One constant

- Describe where the “microbial growth” must have come from in the second flask. Be specific.



Name _____ Block _____ Date _____

Fill in the chart below using the following word bank. Each term will be used only once. (10 pts)

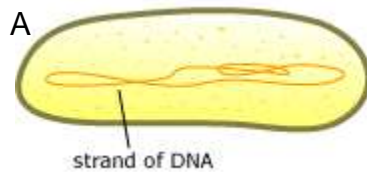
Word Bank

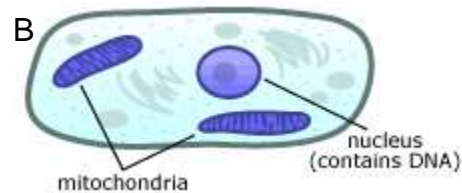
Cell membrane	Membrane-bound organelles	Archaeobacteria	Ribosomes	Plants
Have DNA	Uses energy	Eubacteria	Nucleus	Animals

Prokaryotes only	Eukaryotes only
1)	1)
2)	2)
	3)
	4)

Both types of cells
1)
2)
3)
4)

Label each cell below as "prokaryotic" or "eukaryotic." (3 pts)





Explain why you identified them this way.
