

Name _____ Date _____ Period _____

BACTERIA VS. VIRUSES

VIRAL/BACTERIAL STRUCTURE

CHOOSE: VIRUS / BACTERIA / BOTH

- | | |
|----------------------------------|---------------------------------------------|
| 1. prokaryotic | 10. doesn't have a nucleus |
| 2. has flagella | 11. contains cytoplasm |
| 3. causes illnesses | 12. comes in a variety of shapes and sizes |
| 4. goes inside living cells | 13. attaches to cells by a lock and key fit |
| 5. reproduces every 20 minutes | 14. surrounded by a cell wall |
| 6. contains DNA (or RNA) | 15. surrounded by a capsid made of protein |
| 7. unicellular | 16. evolves very quickly |
| 8. not classified into a kingdom | 17. its niche is to decompose waste |
| 9. not considered alive | 18. non-cellular particle |

VIRAL/BACTERIAL REPRODUCTION

CHOOSE: VIRUS / BACTERIA / BOTH

- | | |
|-------------------------------|------------------------------------|
| 1. can do sexual reproduction | 7. causes host cells to burst open |
| 2. parasitic infections | 8. reproduces asexually |
| 3. conjugation | 9. circular DNA |
| 4. replicates DNA (or RNA) | 10. produces identical offspring |
| 5. produces spores | 11. does the lytic cycle |
| 6. no nucleus | 12. cells can divide in half |

PROKARYOTIC/ANIMAL CELL FEATURES

CHOOSE: PROKARYOTE / ANIMAL / BOTH

- | | |
|-----------------------------------|-----------------------------------------------|
| 1. has a cell membrane | 9. has mitochondria |
| 2. also has a cell wall | 10. comes in a variety of shapes and sizes |
| 3. contains DNA | 11. has rough and smooth ER |
| 4. has a nucleus | 12. small cells |
| 5. Archaeobacteria and Eubacteria | 13. has lysosomes and peroxisomes |
| 6. unicellular | 14. does not have cellulose |
| 7. has ribosomes | 15. live in hot areas, such as volcanoes |
| 8. has cytoplasm | 16. must be heterotrophic - never autotrophic |