Cell Review Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| 1. What are the differences between a prokaryotic cell and a eukaryotic cell? Give detail. | **prokaryotic cell** | **eukaryotic cell** |
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| 2. What are the differences between bacteria and viruses? | **bacteria** | **viruses** |
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| 3. Draw and label a plant cell and an animal cell. | **Plant Cell** | **Animal Cell** |
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| What are the differences between a plant cell and an animal cell? |  | |

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| Give the structure and function of the following organelles | **Structure (What it IS- a description). Include a drawing of the organelle.** | **Function (What it DOES)** |
| 1. Cell membrane | Thin skin-like structure which surrounds the cell |  |
| 1. cytoplasm |  |  |
| 1. cell wall |  |  |
|  | Large, often round structure that contains genetic material |  |
|  |  | Captures energy from the sun to produce sugars |
|  |  | Releases energy from food molecules |
|  | Small sacs located in the cytoplasm |  |
|  |  | Stores wastes, food and substances that cannot be used right away |

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| Define **photosynthesis** and complete the equation showing the reactants and products  Energy!!! | Products  Reactants  Light +\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ +\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 🡪\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_ |
| Define **cellular respiration** and complete the equation showing the reactants and products | Reactants  Products  Sugar + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_+\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_+\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| What pattern do you see when you compare photosynthesis and cellular respiration? |  |

What are the three main points of Cell Theory?

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What are the 7 Characteristics that all living things share? Give an example of each.

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| Characteristics | Example |
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