**Student Essential Outcomes Checklist**

**(Unit 1 – The Cell)**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Biology 11**

**Directions:** Keep this sheet in your student file and make sure to routinely update it after each check-in and test written. This will allow you to keep track of the outcomes you have accomplished and the ones you need to work towards accomplishing.

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| **Essential Outcome** | **Outcome Achieved** | **Extensions** |
| **A: Cell Theory & Microscope** |
| **1:** I can define and explain the 8 characteristics that determine if something is living. |  |  |
| **2:** I can explain the now discredited idea of spontaneous generation, including the evidence provided by Redi, Needham, Spallanzani and Pasteur who would ultimately disprove it.  |  |  |
| **3:** I can identify the components of the cell theory and briefly explain how this theory was generated throughout history.   |  |  |
| **4 (Lab):** I can use a microscope properly and safely in order to prepare a slide and draw a biological diagram.  |  |  |
| **B: A Closer Look at Cells** |
| **5:** I can identify types of cells based on parts that are present or absent. (prokaryote vs. Eukaryote/animal vs. Plant) |  |  |
| **6:** I can identify and explain the contributions of the following cell components: cell wall, cell membrane, nucleus, chromosomes, chloroplast, ribosomes, mitochondria, cytoplasm and centrioles.  |  |  |
| **7:** I can identify the structure and function of the “skin” that surrounds the cell. |  |  |
| **8:** I can explain how molecules move into and out of the cell. |  |  |
| **C: Photosynthesis & Cellular Respiration** |
| **9:** I can generally explain how plant cells create food energy (photosynthesis).  |  |  |
| **10:** I can generally explain how all cells (plant & animal) release energy from food (cellular respiration).   |  |  |