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| M. Angileri | **6th grade science** | | **Lesson Plans 10-22 18 Anatomy of a Cell #2** | | | | |
| NGSS Standards | **MS-**  **MS**  DCI (A)  DCI (A)  MS-  S & E practices  CCC | | Develop and use a model to describe the function of a cell as a whole and ways parts of cells contribute to the function.  **Structure and Function** Within cells, special structures are responsible for particular functions, and cell membrane forms the boundary that controls what enters and leaves the cell  **Developing and Using Models:** Phenomena: Develop and/or use a model to predict and/or describe phenomena.  **Structure and Function:** Analysis of Structures: Complex and microscopic structures and systems can be visualized, modeled, and used to describe how their function depends on the shapes, composition, and relationships among its parts; therefore, complex natural and designed structures/systems can be analyzed to determine how they function. | | | | |
| Essential Question | | **How are cells like organisms?** | | | | | |
| Vocabulary: | | **Nucleus:** The dense area in a eukaryote cell that contains nucleic acids, the chemical instructions that direct the cell’s activities. (A membrane bound structure in eukaryotic cells that contains DNA)  **Chloroplast:** The structure of the plant cells in which food is made. (Membrane bound organelle in plants that tis the site of photosynthesis)  **Cell Membrane:** A lipid barrier that encloses the cytoplasm and controls what enters and exits the cell.  **Cell Wall:** The tough protective barrier that surround the outer membrane of some cell types.  **Mitochondria:** Organelle in cytoplasm of eukaryote cells that functions in energy production, the power factory of the cell. | | | | | |
|  | | **MONDAY**  **Substitute** | | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
| Content Objective: | | SW demonstrate comprehension of the ways parts of cells contribute to the function by explaining the “job of each organelle and the type of cell it is found in. | | SW demonstrate knowledge of parts of a cell by identifying structures and functions and how the organelles work together for the survival of the cell. | SW demonstrate knowledge of cells to identify and compare the functions of plants, animals, and cells by recording information in a table. | SW demonstrate evaluation of cell and ways parts of cells contribute to the function by testing using the common assessment. | SW demonstrate evaluation of cell and ways parts of cells contribute to the function by justifying how a cell’s organelles are similar to organs in a body using the CER |
| Language objective | | SW write to describe parts of a cell and the functions of cell organelles using information from the stem Scope article with 85 % accuracy | | SW write to paraphrase information about parts of a cell sand their functions using sentence frames with 85 % accuracy | SW write to draw conclusions about cells to identify and compare the functions of plants, animals, and cells using general notetaking with 80% accuracy. | SW read to answer questions about cell and ways parts of cells contribute to the function using the common assessment with 70% or greater accuracy. | SW write to elaborate about cell and ways parts of cells contribute to the function using the details discussed in class with 80 % accuracy. |
| In class today | | Organelle Article and activity | | Complete CCV  Complete Hook  Discuss Stemscope Article  Study Guide | Correct Study Guide  Explore 1 Functions of a cell | Study Guide Due  Test Cells  Prepare for Type 3 | CER Type 3  How are organelles in a cell similar to organs in the body |