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| M. Angileri | **6th grade science** | **Lesson Plans 10-1-18 Cells (3)** | | | | |
| NGSS Standards | **MS-LS1-1**  **MS-LS1-2**  DCI (A)  DCI (A)  MS-LS1.2.A  S & E practices  CCC | Conduct an investigation to provide evidence that living things are made up of cells; either one or many cells.  Develop and use a model to describe the function of a cell as a whole and ways parts of a cell contribute to the function.  **Structure and Function** All living things are made up of cells, which is the smallest unit that can be said to be alive. An organism may consist of one single cell or many different numbers and types of cells.  **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 | Why are viruses classified as nonliving?  How did our knowledge of cell theory change over time? | | | | | |
| Vocabulary: | **Multicellular:** An organism made up of more than one, often different cells.  **Cell:** Basic structural and functional unit in living organisms.  **Cell Theory:** Theory that states the cell is the basic unit of all living things.  **Unicellular:** An organism made up of one cell.  **Organelle:** Membrane-bound structure inside a cell that has a particular function,  **Prokaryote:** Organism whose cells lack a nucleus and membrane-bound organelles.  **Eukaryote:** Organism whose cells have a true nucleus and membrane-bound organelles. | | | | | |
|  | **MONDAY** | | **TUESDAY** | **WEDNESDAY** | **THURSDAY**  **½ day schedule** | **FRIDAY** Study Skills day: short classes |
| Content Objective: | SW demonstrate knowledge that living things are made up of cells; either one or many cells by recognizing the difference between structures. | | SW demonstrate comprehension of evidence that living things are made up of cells by summarizing information in a word sort. | SW demonstrate comprehension of evidence that living things are made up of cells by explaining their microscopic observations. | SW Comprehension of contributions of Cell Theory scientists by Summarizing information to create power point slides. | SW Comprehension of contributions of Cell Theory scientists by Summarizing information to create power point slides. |
| Language objective | SW write to draw conclusions that living things are made up of cells; either one or many cells using sentence frames. | | SW write to draw conclusions about living things are made up of cells by sorting items into nonliving, unicellular or multi cellular. | SW write to answer questions about evidence that living things are made up of cells using content specific vocabulary. | SW describe contributions of Cell Theory scientists by Summarizing information using content specific vocabulary. | SW describe contributions of Cell Theory scientists by Summarizing information using content specific vocabulary. |
| In class today | NWEA Day 1  Homework: Explore 1 | | NWEA Day #2  Homework: Stem Scope Article | Microscopes  Preparing slides: Onion, Lettuce, check, sand., pond water  Explore 2 | Cell Theory Project | Cell Theory Project |
| Learning Target | I can write to explain the difference between unicellular and multicellular using pictures of organisms with 80% accuracy. | | I can sort items into the categories; nonliving, unicellular, and multicellular after to demonstrate my understanding of the article with 85% accuracy. | I can provide evidence of my microscopic observations using the data analysis questions with 70 % accuracy. | I can summarize information about my cell theory scientist on power point slides with 80% accuracy. | I can summarize information about my cell theory scientist on power point slides with 80% accuracy. |

I can explain/justify with evidence that all living things are made of one or more cells.