**Lesson Title: Levels of Cell Organization**

**Unit: Growth and Development**

TEKS: (11)(C)

OBJECTIVES

The student shall be able to:

1. Define cell organization.
2. Illustrate levels of cell organization.
3. Differentiate types of cell organization within the body.

TEACHING MATERIALS, TOOLS, AND EQUIPMENT

PPT: Levels of Cellular Organization

LAB: Jello Cell Activity

TEACHING PROCEDURE

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| Interest Approach/Anticipatory Set | Teacher Notes |
| Review past lessons: cell meiosis, cell parts, cell differentiation, and difficult terms.  Interest approach. Group activity:  In partners, have the students come up with an example of a hierarchy. (Acceptable answers include a kingdom, the government, a business, a school) Have them illustrate the hierarchy on a piece of paper listing the highest order to lowest. Then ask the students what would happen if a level anywhere in the order was removed or taken out of place. Relate to cell organization and how the atoms (servants) are the basis for everything from tissues to bones and organs, etc. allow students to share and explain their logic.  Example of Hierarchy for students to draw:  2. Motivation – Remind students that there is always a pyramid of organization within a group, just like there is cellular organization that makes up the body of an animal.  Example: As we discussed yesterday, we are going to be learning the levels of cellular organization within animals.  TRANSITION – Today, we’re going to try to think about these things in the context of designing lesson plans. | Have an example on the board so that the students understand what a hierarchy is. |

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| Teaching Plan and Strategy / Presentation of New Material | Teacher Notes |
| PowerPoint: Levels of Cellular Organization   * Key Terms: Cell, Organelle, Protoplasm * Importance of Cellular Organization * Atom, Molecule, Cell, Tissue, Organ, Organ System, Organism | Techniques and media used to teach with (PPT, problem solving, demo, worksheet, video, Web sites, etc.) |

ENGAGEMENT

Students take notes throughout the lecture and give answers to questions.

EVALUATION

Notes Worksheet: Students will be allowed to use notes to complete the worksheet.

ADDITIONAL MATERIALS

College & Career Readiness Standards: II.C.1; II.E.7 (Write in the number/letters already crosswalked for your unit)

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