|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Week**  **Of**  **January 19-22** | **Jennings Senior High** | | | | |
| **Subject: Biology and Honors Biology** | | | **Grade Level: 9-12** | **Instructor(s): Ms. C. White** | |
|  | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **Key Concepts -Learning**  **Targets /Daily Objective** | . | Student will be able recognize that chromosomes of daughter cells, formed through the process of asexual reproduction and mitosis, the formation of somatic (body) cells in multicellular organism are identical to the parent cell. | Student will be able recognize that chromosomes of daughter cells, formed through the process of sexual reproduction and meiosis, the formation of gametes (sex) cells in multicellular organism undergoes two rounds of cell divisions for genetic diversity | Student will be able recognize that chromosomes of daughter cells, formed through the process of sexual reproduction and meiosis, the formation of gametes (sex) cells in multicellular organism undergoes two rounds of cell divisions for genetic diversity | Students will learn the basic function of DNA and RNA |
| **Common Core**  **Standards** | LO-2-A-c, LO-2-A-a, LO-2-B-a, LO-2-B-b, LO-2-D-a  LO-3-C-dLO-3-C-cLO-3-C-bLO-3-C-aLO-3-A-aLO-3-D-a LO-2-A-c, LO-2-A-a, LO-2-B-a, LO-2-B-b, LO-2-D-a | | | | |
| **Vocabulary** | Chromosome, Chromatin, Cell cycle, Cell division, Asexual reproduction, Interphase, Mitosis, Sexual reproduction, Cytokinesis, Prophase, Centromere, Chromatid, Centriole, Metaphase ,Anaphase, Telophase, Somatic, body, diploid, haploid | | | | |
| DOK Levels | 3/4 | 3,4 | 3,4 | 3,4 | 3,4 |
| **Class Procedures/Lesson Design** |  | Do Now : Mini Quiz  An organism reproduces by sexual reproduction. Its diploid number of chromosomes is 24. How many chromosomes are in the daughter cells after mitosis? | Do Now – Which of the following cells are diploid (D) and which are Haploid (H)?   * Skin Cells - * Muscle Cells * Germ Cells ( the parents of gametes) * Gametes * Prophase Cells * Egg Cells * Telophase cells in Mitosis * Telophase II Cells in Meiosis | Do Now – Which of the following cells are diploid (D) and which are Haploid (H)?   * Skin Cells - * Muscle Cells * Germ Cells ( the parents of gametes) * Gametes * Prophase Cells * Egg Cells * Telophase cells in Mitosis * Telophase II Cells in Meiosis | Do Now – Chromosomes and genes are made of what? (hint: its what’s make You. (5 min) |
|  | **Whole Group Lesson Introduction/Anticipatory Set**  **Activity 1 (35 min)**  Meiosis simulation lab activity  **Activity 2** Concept Map – comparing Mitosis and Meiosis (15 min)  **Activity 3** – Close Reading Comparing Mitosis and Meiosis (20 min)  **Activity 4 –** Voc review – crossword puzzle (25 min) | **Whole Group Lesson Introduction/Anticipatory Set**  **Activity 1 (~20 min)**  Review concept Map for mitosis and meiosis  **Activity 2** – Reproduction study Guide (30 min)  **Activity 3** – Kahoot it (20 min)  **Activity 4** – Reproduction assessment (20 min) | **Whole Group Lesson Introduction/Anticipatory Set**  **Activity 1 (~20 min)**  Review concept Map for mitosis and meiosis  **Activity 2** – Reproduction study Guide (30 min)  **Activity 3** – Kahoot it (20 min)  **Activity 4** – Reproduction assessment (20 min) | **Whole Group Lesson Introduction/Anticipatory Set**  **Activity 1 –** Introduction onto DNA Notes (20 min)  **Activity 2 –**  **Whole group learning strategies –**  DNA – Pre- lab Students will build a DNA model (cut out) then construct a 3D model using beads, piper cleaner and candy.  Homework – crossword puzzle vocabulary |
| **Highly Tested CLE:**  **(EOC/ACT Time)**  **20 Min. Devoted to EOC/ACT Skill Reinforces (20 Minutes)** |  |  |  |  |  |
| **Daily Formative Assessment (5-10 Minutes)** | Mini quiz | Mini quiz | Concept Map | Concept Map |  |
| **Summative Assessment** | Summative assessment for reproduction is scheduled on or about January 21 and 22 | | | | |
| **Materials and Resources** | Lab materials, dry erase markers, composition notebook and SMART Board, osmosis lab (Cell Transport). | | | | |
|  |  | | | | |