A blue and grey logo with claws

Description automatically generated**2024-2025 Weekly Lesson Planning Document**

Week of Monday, \_\_\_10/28\_\_\_\_through Friday, \_\_\_\_11/02\_\_\_\_\_\_

**EDUCATOR’S NAME:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **SUBJECT:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Biology\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| Cv | **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
| **Cells:**  **Cellular Structure**  **Unit: 2**  **Page Number(s): 47-57, 242-269**  (It is suggested that you use your curriculum map.) | **Unit 2 : Cells:**  **Cell Division and Reproduction** | **Unit 2 : Cells:**  **Cell Division and Reproduction** | **Unit 2 Cells: Cell Division & Reproduction: DNA** | **Unit 2 Cells: Cell Division & Reproduction: DNA** | **Unit 2 Cells: Cell Division & Reproduction: DNA** |
| **TN Standard(s):**  Grade level standard (include standard notation and language).  Which State Standard is your lesson addressing? This should also be on your Whiteboard Protocol. | BIO1.LS3.1:  Model Chromosome progression through meiosis and fertilization in order to argue the process of sexual production lead to both genetic similarities and variation in diplod organisms. Compare and Contrast the processes of sexual and asexual reproduction, identifying the advantages and disadvantages of each  BIO1.LS1.3 Integrate evidence to develop a structural model of a DNA molecule. Using the model, develop and communicate an explanation for how DNA serves as a template for self replication and encodes biological information. | | | | |
| **Objective (s):**  What specifically should students be able to do at the end of the lesson? The objective is standards-based.  Write the objective in student friendly terms. For example, I can multiply binomials.  This is should also be on your Whiteboard Protocol.  What do you want students to know, understand and be able to do as a result of this lesson?  The objective should be written using the stem…  **I CAN….** | I can use evidence IOT develop a structural model of a DNA molecule | I can use evidence IOT develop a structural model of a DNA molecule. | I can use evidence IOT develop a structural model of a DNA molecule | I can use a model of a DNA molecule IOT communicate how DNA serves as a template for replicating and encoding biological information. | I can use a model of a DNA molecule IOT communicate how DNA serves as a template for replicating and encoding biological information. |

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| **Possible Misconception (s):**  What misconception(s) are you anticipating during this lesson? | Many students confuse the structure of DNA in these ways: • DNA is a living thing. • Different cells within an organism have different DNA. • Only animal cells have DNA. • DNA is rarely single stranded, while RNA is regularly single stranded. • DNA has thymine, but RNA has uracil. • DNA is found as a double helix, while RNA forms structures from base pairing within the RNA molecule. |  | Many students confuse DNA replication in these ways • A DNA sequence can only be replicated in a cell if it originated in the given cell. Students should learn that DNA replication is non-specific. • Students misunderstand that the unzipping process in DNA replication is the breaking of hydrogen bonds between complementary base pairs to separate the two DNA strands. | The unwinding process is the untwisting of the DNA double helix. • The triplet of 3 bases that forms the genetic code is known as base triplet in DNA, codon in mRNA, and anticodon in tRNA. |  |
| **Literacy-Based DO NOW:**  This literacy-based activity should be ready for students to begin working on upon entering class. Students should have an opportunity to read, write, and/or speak. | Formula for photosynthesis  Who are LDR and LIR connected | Briefly describe differences of cell respiration | How do cells grow and develop | What are the three checkpoints of cell growth | Explain the differences of checkpoints in cell growth |
| **Agenda for the Day**  Simple outline of lesson segments or activities that is time stamped.  Teacher/class should take 2 minutes or less to review. | * Do Now *(8 minutes)* * Review Learning Objective *(7 minutes)* * Group *( 10 minutes)* * Peer work *(15 minutes)* * Group *(7 minutes)* * Exit ticket *(3 minutes)* | * Do Now *(8 minutes)* * Review Learning Objective *( minutes)* * Item 3 *( minutes)* * Item 4 *( minutes)* * Item 5 *( minutes)*   Item 6 *( minutes)* | * Do Now *(8 minutes)* * Review Learning Objective *( minutes)* * Item 3 *( minutes)* * Item 4 *( minutes)* * Item 5 *( minutes)*   Item 6 *( minutes)* | * Do Now *(8 minutes)* * Review Learning Objective *( minutes)* * Item 3 *( minutes)* * Item 4 *( minutes)* * Item 5 *( minutes)*   Item 6 *( minutes)* | * Do Now *(8 minutes)* * Review Learning Objective *( minutes)* * Item 3 *( minutes)* * Item 4 *( minutes)* * Item 5 *( minutes)*   Item 6 *( minutes)* |
| **Beginning of Lesson**  **I Do**  **Science:** Engage & Explore | Explore • Interactivity: Limits to Cell Size • Quick Lab: Make a Model of Mitosis or p. 347 • Lab: Cell Cycle • Interactivity: Exploring Mitosis | Explore • Interactivity: Limits to Cell Size • Quick Lab: Make a Model of Mitosis or p. 347 • Lab: Cell Cycle • Interactivity: Exploring Mitosis | • Analyzing Data: The Rise and Fall of Cyclin or p. 352 • Science Skills Activity: Investigating Cell Regulation • Controls on Cell Division; TE p. 351 • Interactivity: Regulating Cell Growth • Cancer: Uncontrolled Cell Growth; TE p. 353 | • Analyzing Data: The Rise and Fall of Cyclin or p. 352 • Science Skills Activity: Investigating Cell Regulation • Controls on Cell Division; TE p. 351 • Interactivity: Regulating Cell Growth • Cancer: Uncontrolled Cell Growth; TE p. 353 | Elaborate • PBL Interactivity: Optimizing Algal Growth • Stem Cells – Will stem cells change the future of healing? pp. 336-337 |
| **(05 MINUTES MAX)**  **Literacy Based closing activity:**  Engage students in reading and writing tasks that assess their understanding of the lesson. Students are drawn back to the objective for the day. | **Three question review through sorcrative** | **Three question review through sorcrative** | **Three question review through sorcrative** | **Three question review through sorcrative** | **Three question review through sorcrative** |
| **SPED Modification (s):**  What modifications are being made to accommodate the students receiving special services? | **Extended time**  **Multiple attempts**  **Tutoring**  **Access to addition resources through etextbook** | **Extended time**  **Multiple attempts**  **Tutoring**  **Access to addition resources through etextbook** | **Extended time**  **Multiple attempts**  **Tutoring**  **Access to addition resources through etextbook** | **Extended time**  **Multiple attempts**  **Tutoring**  **Access to addition resources through etextbook** | **Extended time**  **Multiple attempts**  **Tutoring**  **Access to addition resources through etextbook** |
| **ESL Modification (s):**  What modifications are being made to accommodate the students receiving special services? | **Extended time**  **Multiple attempts**  **Tutoring**  **Access to addition resources through etextbook** | **Extended time**  **Multiple attempts**  **Tutoring**  **Access to addition resources through etextbook** | **Extended time**  **Multiple attempts**  **Tutoring**  **Access to addition resources through etextbook** | **Extended time**  **Multiple attempts**  **Tutoring**  **Access to addition resources through etextbook** | **Extended time**  **Multiple attempts**  **Tutoring**  **Access to addition resources through etextbook** |
| **Assessment (s):**  How will you know that students have reached the objective?  Assessments may include:  Pre-assessment, formative assessments, summative assessment, post-assessment, discussions, performance, demonstration, etc. |  |  |  |  | Quiz on viruses and living characteristics |
| **Corrective Activity (s):**  What will I do if the student doesn’t understand the lesson? |  |  | Classification assignment on living things vs non living | **Classification assignment on living things vs non living** | **Classification assignment on living things vs non living** |
| **Extension/Enrichment Activity (s):**  What will I do with students who understand quicker than others? | **Additonal assignments through SAVVVAS that test rigor and provide additional content** | **Additonal assignments through SAVVVAS that test rigor and provide additional content** | **Additonal assignments through SAVVVAS that test rigor and provide additional content** | **Additonal assignments through SAVVVAS that test rigor and provide additional content** | **Additonal assignments through SAVVVAS that test rigor and provide additional content** |
| **Technology Integration:**  How will the students use technology to help them master the objective. | **Laptops will be used to access homework and in class assignments** | **Laptops will be used to access homework and in class assignments** | **Laptops will be used to access homework and in class assignments** | **Laptops will be used to access homework and in class assignments** | **Laptops will be used to access homework and in class assignments** |

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| **IN THE FOLLOWING PAGES:**  **ONLY COMPLETE SECTION(S) BELOW IF YOUR SUBJECT IS IDENTIFIED/LISTED** | | | | | |
| **ALL SCIENCE (S):**  What is your **resource plan for each of the 5 Es** of inquiry-based science instruction?   1. Engage 2. Explore 3. Explain 4. Elaborate 5. Evaluate | **Engage**  **Explore**  **Explain**  **Elaborate**  **Evaluate** | **Engage**  **Explore**  **Explain**  **Elaborate**  **Evaluate** | **Engage**  **Explore**  **Explain**  **Elaborate**  **Evaluate** | **Engage**  **Explore**  **Explain**  **Elaborate**  **Evaluate** | **Engage**  **Explore**  **Explain**  **Elaborate**  **Evaluate** |
| **ALL SCIENCE (S):**  ***(Multiple opportunities to engage in science, Makes since of science content)***  What is yourplan to incorporate technology while incorporating the 5E instructional model?  **SUGGESTED OPPORTUNITIES FOR TECHNOLOGY**  Log into Pearson Savvas Realize platform via Clever and Canvas before accessing identified hyperlinked materials.   * Interactivity: [Studying Life](https://www.savvasrealize.com/content/viewer/standalone/loader/view/0d2c2dda-1e27-3879-af7b-35942d8d43cc/17/nonscorable?programId=553df26a-1307-37cd-952f-f1e052907e12&programVersion=14&containerId=ada6bbce-7a7c-3d30-b2b2-aac8c78754a9&containerVersion=15&backUrl=https:%2F%2Fwww.savvasrealize.com%2Fdashboard%2Fprogram%2F553df26a-1307-37cd-952f-f1e052907e12%2F14%2Ftier%2F6a243968-b110-39c0-a7db-da3e2fa25bed%2F15%2Flesson%2Fada6bbce-7a7c-3d30-b2b2-aac8c78754a9%2F15&locale=en&programName=Tennessee%20Miller%20&%20Levine%20Biology=) (Savvas) * Interactivity: [Prokaryotes and Eukaryotes](https://www.savvasrealize.com/content/viewer/standalone/loader/view/77129596-546b-3cc5-8998-c3aec8db13d8/17/nonscorable?programId=553df26a-1307-37cd-952f-f1e052907e12&programVersion=14&containerId=1e9138e4-a67f-3312-995c-363936df6385&containerVersion=15&backUrl=https:%2F%2Fwww.savvasrealize.com%2Fdashboard%2Fprogram%2F553df26a-1307-37cd-952f-f1e052907e12%2F14%2Ftier%2F2908a01f-e88b-3ca3-a2b5-8d41f71b9669%2F15%2Flesson%2F1e9138e4-a67f-3312-995c-363936df6385%2F15&locale=en&programName=Tennessee%20Miller%20&%20Levine%20Biology=) (Savvas) * Interactivity: [Multicellular Life](https://www.savvasrealize.com/content/viewer/standalone/loader/view/8e2572b3-d454-3db6-a15c-f7214d50bf67/17/nonscorable?programId=553df26a-1307-37cd-952f-f1e052907e12&programVersion=14&containerId=686cf2be-5198-3075-83bc-0b0ac682df89&containerVersion=15&backUrl=https:%2F%2Fwww.savvasrealize.com%2Fdashboard%2Fprogram%2F553df26a-1307-37cd-952f-f1e052907e12%2F14%2Ftier%2F2908a01f-e88b-3ca3-a2b5-8d41f71b9669%2F15%2Flesson%2F686cf2be-5198-3075-83bc-0b0ac682df89%2F15&locale=en&programName=Tennessee%20Miller%20&%20Levine%20Biology=) (Savvas) * Interactive Video: [Characteristics of Life](https://www.savvasrealize.com/content/viewer/standalone/loader/view/869ed23e-54af-3f4e-91d9-8469a3b0e226/18/nonscorable?programId=553df26a-1307-37cd-952f-f1e052907e12&programVersion=14&containerId=ada6bbce-7a7c-3d30-b2b2-aac8c78754a9&containerVersion=15&backUrl=https:%2F%2Fwww.savvasrealize.com%2Fdashboard%2Fprogram%2F553df26a-1307-37cd-952f-f1e052907e12%2F14%2Ftier%2F6a243968-b110-39c0-a7db-da3e2fa25bed%2F15%2Flesson%2Fada6bbce-7a7c-3d30-b2b2-aac8c78754a9%2F15&locale=en&programName=Tennessee%20Miller%20&%20Levine%20Biology=) (Savvas) * Nearpod Video: [Viruses Flocabulary](https://nearpod.com/library/preview/viruses-L67321075) * Nearpod Video: [Characteristics of Life](https://nearpod.com/t/science/9th/characteristics-of-life-L81287919) with the Amoeba Sisters or   YouTube Video: [Characteristics of Life](https://www.youtube.com/watch?v=cQPVXrV0GNA&t=64s) with the Amoeba Sisters  Nearpod Video: [Viruses](https://nearpod.com/library/preview/lesson-L81287945) with the Amoeba Sisters or YouTube Video: [Viruses](https://www.youtube.com/watch?v=8FqlTslU22s) with the Amoeba Sisters |  |  |  |  |  |
| **ALL MATH (S):**  What **manipulatives** might be integrated into the lesson? What did you learn from using the manipulatives **in advance** of using them in class with students? |  |  |  |  |  |
| **ALGEBRA I:**  What **practice problems** are you planning to use for the **Explore, Understand & Apply, Practice & Problem Solving, and Assess & Differentiate** portions of the lesson? What did you learn from working the problems **in advance** of using them in class with students?  **TEACHER PLANS:**  Components of the  textbook’s Instructional Design |  |  |  |  |  |
| **GEOMETRY:**  What **activities/practice** problems are you planning to use for **Launch the Lesson, Explore It, Examples & Self-Assessment, and Practice** portions of the lesson? What did you learn from working the problems **in advance** of using them in class with students?  **TEACHER PLANS:** Components of the textbook’s Instructional Design |  |  |  |  |  |
| **ALGEBRA II:**  What **practice problems** are you planning to use for the **Launch, Explore & Develop, and Reflect & Practice** portions of the lesson? What did you learn from working the problems **in advance** of using them in class with students?  **TEACHER PLANS:** Components of the textbook’s Instructional Design |  |  |  |  |  |

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| **ALL ELA (S):**  What text(s) will be used for each phase of gradual release of responsibility?  **TEACHER PLANS:** Phases of gradual release.  Have you read and annotated the text(s)? (Show me) · What type of literary text or informational text will you use? · Did the text(s) come from the reading prescriptions? If not, why was this text chosen? · Is the text in the Wonders or myPerspectives curriculum? · What real life examples appear in the text or can be used to help students make meaning from the text? · What components of the text will be difficult for your students? · What is the flow of instruction? Is it aligned to the Gradual Release of Responsibility? Gradual Release Questions · Please show me your exemplar for the I Do. What will be modeled? · What will be done through partner work? Independently? · What student misconceptions are you anticipating and why? |  |  |  |  |  |
| **ALL ELA (S):**  High-Quality Texts:  **Core Action 1**  Focus each lesson on a high-quality text (or multiple texts).  Text-Specific Questions:  **Core Action 2**  Employ questions and tasks, both oral and written, that are text-specific and accurately address the analytical thinking required by the grade-level standards. |  |  |  |  |  |