ELA Lesson Plan

Content Area	Physical Science
Grade *Level*	***A***
Topic	Organization and Development of Living Organism
Duration	6 months

CCRSAE

Reading, Writing, Language, Speaking and Listening, Mathematics, Foundational Reading and Writing

Instruction *Shifts*
(Please enter all that are applicable: Complexity, Evidence, Knowledge)

Complexity, Knowledge

Objective
Students will be able to…
(Please list all the points)

1. Define and explain the fundamental principles underlying human physiology.
2. Demonstrate an understanding of the biochemical processes that fuel human cells.
3. Analyze the interplay between genetics, environment, and human health.
4. Describe the technological advancements in human science that contribute to improved healthcare.

Assessment
Students will demonstrate mastery of the objective by…
(Please list all the points)

1. List and describe three primary systems of the human body and their main functions.
2. Sketch and label the basic steps of cellular respiration, highlighting the role of glucose.
3. Write a short essay discussing a genetic disorder, its inheritance pattern, and the environmental factors that might influence its expression.
4. Present a timeline of five significant technological innovations in medical science from the last century and explain their impact on patient care.

Materials
authentic and meaningful materials relatedto the learning objectives.

1. Human Anatomy Atlas or a 3D Body Model
2. 3D Cell Structure Diagram or Cell Respiration Kit
3. Genetic Testing Kit or a DNA Helix Model
4. Interactive Timeline Software or a Medical Technology Exhibit Board

Instructions
How will I go about teachingthis lesson?
What instructional methods and engaging activities will lead students tomastery of the learning objectives?

Methods:

1. Interactive lecture with visuals.
2. Guided demonstration of cellular processes.
3. Case study analysis.
4. Multimedia presentation.

Activities:

1. Explore Human Anatomy Atlas or 3D Body Model.
2. Use Cell Respiration Kit for labeling and discussion.
3. Explore a genetic disorder with Genetic Testing Kit; discuss inheritance and environment.
4. Create projects with Interactive Timeline Software or design a Medical Technology Exhibit Board.

Home Study

What activity will reinforce the learning?

Students will research a specific system of the human body (e.g., circulatory, digestive, respiratory), create a detailed diagram of that system, label its main components, and write a one-page summary explaining its primary functions and importance. This will reinforce their understanding of human physiology and the interconnectedness of body systems.

Reflection

What did I learn about the students' mastery of the learning objectives? What modifications, ifany, will make the lesson more effective?

Through assessing the students' diagrams and summaries, I observed that most grasped the core concepts of human physiology, but some had challenges with the intricacies of certain systems. In future lessons, I'll incorporate more visual aids and real-life examples to clarify complex topics. Additionally, breaking down the activity into smaller, focused tasks might help those struggling to grasp the entirety of a system at once.