

Brookhaven High School

Lesson Plan

Teacher Name: Furr

Class: Physical Science-R

Dates:9/8 to 9/12 , 2025

Unit Name:

Textbook:

Test Date: Tuesday 9/12

CELL Energy

MAAP workbook

OBJECTIVES:

BIO.2 Students will explain that cells transform energy through the processes of photosynthesis and cellular respiration to drive cellular functions.

BIO.2.1 Use models to demonstrate that ATP and ADP are cycled within a cell as a means to transfer energy.

BIO.2.2 Develop models of the major reactants and products of photosynthesis to demonstrate the transformation of light energy into stored chemical energy in cells. Emphasize the chemical processes in which bonds are broken and energy is released, and new bonds are formed and energy is stored.

BIO.2.3 Develop models of the major reactants and products of cellular respiration (aerobic and anaerobic) to demonstrate the transformation of the chemical energy stored in food to the available energy of ATP. Emphasize the chemical processes in which bonds are broken and energy is released, and new bonds are formed and energy is stored.

BIO.2.4 Conduct scientific investigations or computer simulations to compare aerobic and anaerobic cellular respiration in plants and animals, using real world examples.

BIO.2.5 Enrichment: Investigate variables (e.g., nutrient availability, temperature) that affect anaerobic respiration and current real-world applications of fermentation.

BIO.2.6 Enrichment: Use an engineering design process to manipulate factors involved in fermentation to optimize energy production.*

Monday-

-Bell Ringer

-Do video on Cellular Respiration

-Notes on cellular respiration

-Teacher will show students where remedial ck-12 can be found in Canvas (done to obtain up to half credit missed on previous exams).

-Continue as time allows

-Exit ticket on ATP 4.1

Tuesday-	<ul style="list-style-type: none"> -Bell Ringer -Finish Notes on cellular Respiration -Notes on 4.4 Fermentation -Do workbook pages (students) -Exit ticket on 4.2 	
Wednesday-	<ul style="list-style-type: none"> -Teacher out -Students work on ck-12 assignments on Canvas 	
Thursday-	<ul style="list-style-type: none"> -Bell Ringer -Do lecture on 4.5 -students complete section 4.5 *review for quiz on cellular respiration 	
Friday	<ul style="list-style-type: none"> -Bell Ringer -Review cellular respiration & photosynthesis -quiz on section 4 *makeup exams from last week must be taken today. 	
Important Information-		