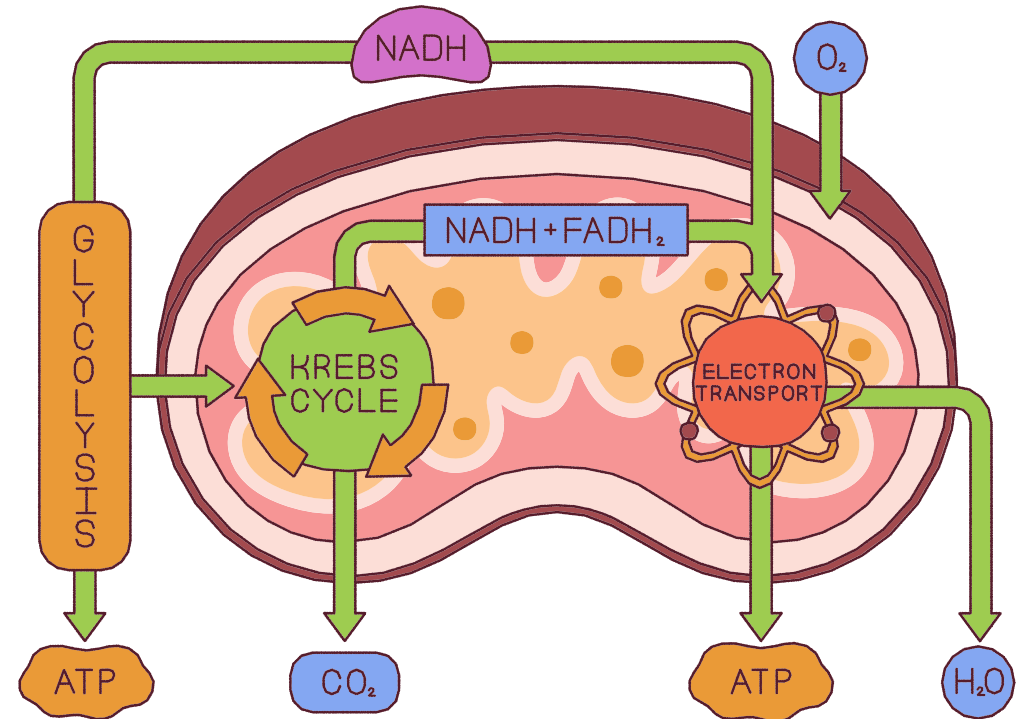
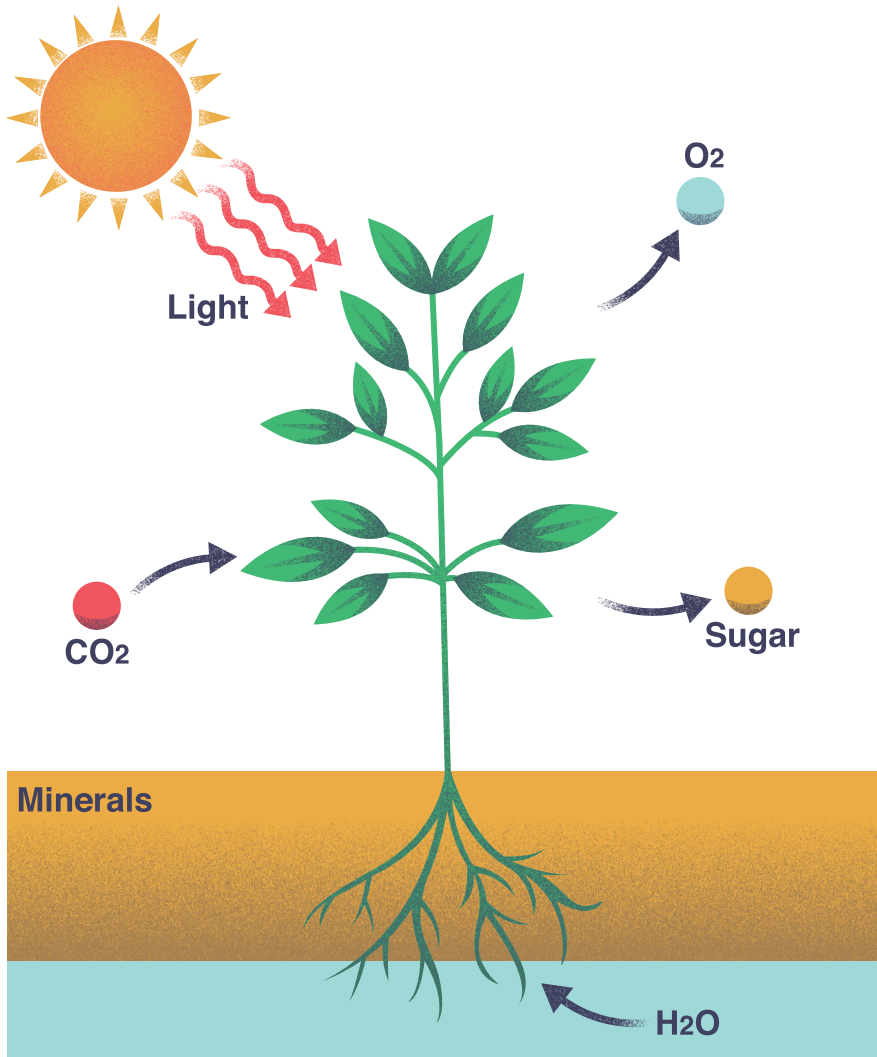


Cell Processes

- Photosynthesis and Cellular Respiration
- Lesson & Engaging Activities
- Daily Teaching Schedule



UPGRADE to the Bundle

Save 70% and
upgrade to the
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Curriculum

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Biology 1 Curriculum

- ✓ Complete Biology 1 Curriculum
- ✓ Google & Distance Learning Ready
- ✓ Engaging, Inquiry-Based Lessons
- ✓ Comprehensive Coverage



No Prep - Ready to Go!

Cell Processes

Unit - Cell Processes - Main Topics

- Photosynthesis
- Cellular Respiration

Includes:

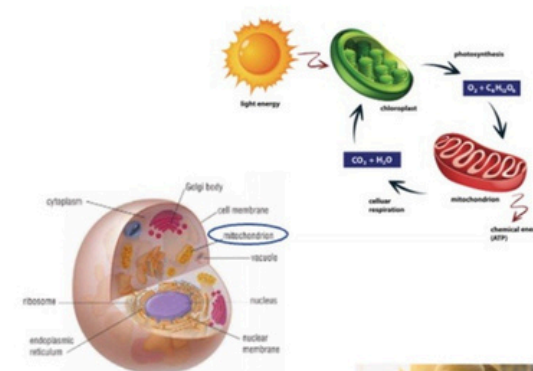
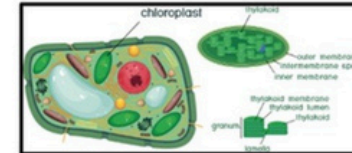
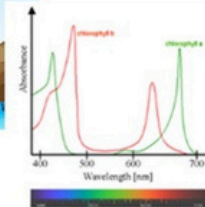
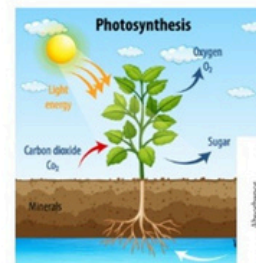
- 2 Lessons
- 9 Activities

Includes: Photosynthesis

- What photosynthesis is
- The importance of photosynthesis
- The process of photosynthesis
- Pigments
- Chlorophyll a & b

Includes: Cellular Respiration

- Energy and ATP
- What cellular respiration is
- Glucose and cellular respiration
- Location of cellular respiration
- Applications of cellular respiration
- The connection between cellular respiration and photosynthesis

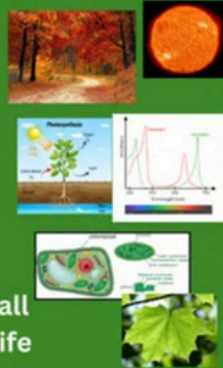


Lessons Include Teacher and Student Versions - Videos Embedded in Lessons

Photosynthesis

- Earth's Energy Budget
- Photosynthesis Introduction
- Pigments
- Why Plants are Green
- Light
- Chlorophyll a & b
- Carotenoids
- Why Some Leaves Change Color in the Fall
- Photosynthesis and Life

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Photosynthesis

- Process whereby plants convert CO_2 , water, and the energy from the Sun into sugar
- Occurs in the leaves of plants in organelles called chloroplasts

carbon dioxide + water $\xrightarrow{\text{light energy}}$ sugar

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Photosynthesis

- Occurs in the leaves of plants in organelles called chloroplasts

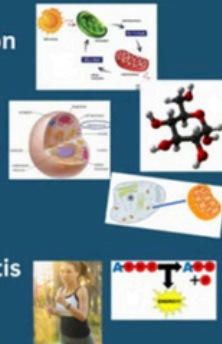
carbon dioxide + water $\xrightarrow{\text{light energy}}$ sugar + oxygen

Teacher and Student versions of each slide to keep your students engaged

Cellular Respiration

- Energy and ATP – Cellular Currency
- What Cellular Respiration is
- Glucose and Cellular Respiration
- Mitochondria
- Application – Exercise
- Application – Cyanide
- Application – Rigor Mortis
- Photosynthesis and Cellular Respiration

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Google Access

Thank you for your purchase. Clicking the link below will automatically create a copy of the Google resources and place them into your Google Drive. You'll find the folder inside the "Shared with me" section on the left side of your Drive.

Important: Before you click, make sure you're signed in to the Google account you'd like the resources placed into. If the resources are added to the wrong account, simply sign out and then into the correct one and repeat the process.

Click here to place a copy of your resources into your Google account

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Google Classroom Ready
One-Click Google Slides Access

ATP (Energy/Currency for the Cell)

- To keep the cell alive, it must perform 1000s of reactions EVERY SECOND
- Every reaction needs energy (ATP)
- ATP is created during cellular respiration inside the mitochondria



Photosynthesis and Cellular Respiration



Cellular Respiration - Exit Ticket

What is considered the "currency" or energy source for cells?

☐ DNA

☐ Protein

☐ Glucose

☐ ATP

4-Question,
Autograded Exit
Ticket

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Videos embedded
directly in your slides

Engaging Activities

Photosynthesis and Cellular Respiration Lab Station Activity



7 Lab Station Activities to get your students out of their seats and engaged in their learning

Device-Based Scavenger Hunt
Photosynthesis and Cellular Respiration

Includes

- 5 Unique Locations
- Online form submission
- Answer Key

Works on all smartphones, tablets, Chromebooks and laptops

- 100% Digital
- Simulations
- Quizzes
- Videos
- Games
- Word Scramble
- and more



Photosynthesis and Cellular Respiration

TWF BINGO

HIGH SCHOOL



Photosynthesis
Science Reading Comprehension
Article - Grade 10 and Up



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Improve your students' Scientific Literacy and Analysis Skills, use as an Emergency Substitute Plan or Cr

Photosynthesis and Cellular Respiration Word Search and Scramble

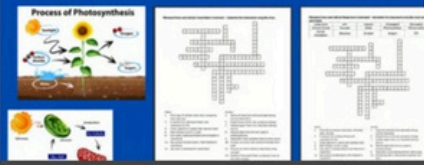
THREE Activities in One!

1. Basic 25-Term Word Search
2. Scrambled Words Word Search
3. Word Scramble and Define Activity



Photosynthesis and Cellular Respiration - GRADE 7-9
Crossword Puzzle

- 15 - Term Crossword
- Includes 2 Versions
 - Version 1 - No Word Bank
 - Version 2 - Includes a Word Bank



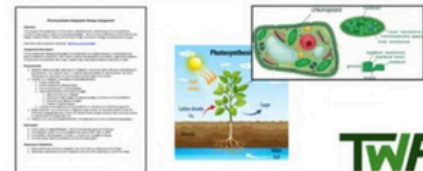
Photosynthesis Lab Station Activity



7 Lab Station Activities to get your kids out of their seats and engaged in their learning

PHOTOSYNTHESIS INFOGRAPHIC ASSIGNMENT

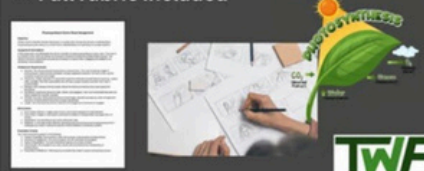
- Students are tasked with creating an infographic that demonstrates their understanding of photosynthesis
- Full rubric included



PHOTOSYNTHESIS COMIC BOOK ASSIGNMENT

High School

- Students create a comic book that narrates the journey of a carbon atom through the process of photosynthesis
- Full rubric included



Daily Teaching Schedule

UNIT – Cell Processes **14 – 15 DAYS TOTAL**

Photosynthesis – 7-8 days			
Number of Day(s)	Course Content	Teaching Resources	NGSS
2	- Earth's Energy Budget - Photosynthesis Introduction - Pigments - Why Plants are Green - Light - Chlorophyll a & b - Carotenoids - Why Some Leaves Change Color in the Fall - Photosynthesis and Life	Photosynthesis Lesson	HS-LS1-5 HS-LS1-6 HS-LS1-7 HS-LS2-3 HS-LS2-5
2-3	Project	Photosynthesis Comic Book Assignment or Photosynthesis Infographic Assignment	
1	Review activity	Photosynthesis - Reading Comprehension Article	
1	Hands-on review activity	Photosynthesis and Cellular Respiration – Device-Based Scavenger Hunt Activity	
1	Hands-on review activity	Photosynthesis - 7 Engaging Lab Stations	

Cellular Respiration – 6 days			
Number of Day(s)	Course Content	Teaching Resources	NGSS
2	- Energy and ATP – Cellular Currency - What Cellular Respiration is - Glucose and Cellular Respiration - Mitochondria - Application – Exercise - Application – Cyanide - Application – Rigor Mortis - Photosynthesis and Cellular Respiration	Cellular Respiration Lesson	HS-LS1-5 HS-LS1-6 HS-LS1-7 HS-LS2-3 HS-LS2-4 HS-LS2-5
1	Hands-on review activity	Cellular Respiration and Photosynthesis - 7 Engaging Lab Station Activities	
1	Review activity	Photosynthesis and Cellular Respiration Word Search and Scramble Activity	
1	Review activity	Photosynthesis and Cellular Respiration - Crossword Puzzle Activity	
1	Review activity	Photosynthesis and Cellular Respiration BINGO - High School Science	
Assessments	There are multiple assessments included throughout this unit. UNIT TEST		

The Following Resources are Included

Photosynthesis Resources

- [Photosynthesis - Lesson](#)
- [Photosynthesis Comic Book Assignment](#)
- [Photosynthesis Infographic Assignment](#)
- [Photosynthesis - Reading Comprehension Article](#)
- [Photosynthesis and Cellular Respiration – Digital Scavenger Hunt Activity](#)
- [Photosynthesis - Lab Station Activity](#)

Cellular Respiration Resources

- [Cellular Respiration - Lesson](#)
- [Cellular Respiration and Photosynthesis - Lab Station Activity](#)
- [Photosynthesis and Cellular Respiration Word Search and Scramble Activity](#)
- [Photosynthesis and Cellular Respiration - Crossword Puzzle Activity](#)
- [Photosynthesis and Cellular Respiration BINGO](#)

Who's It For?

- **High School Biology Teachers**
- **Teachers using NGSS**
- **Teachers who want to increase their student's engagement and retention**
- **Teachers not looking to reinvent the wheel**



Save yourself the **STRESS AND TIME**



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Spend your time WISELY



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