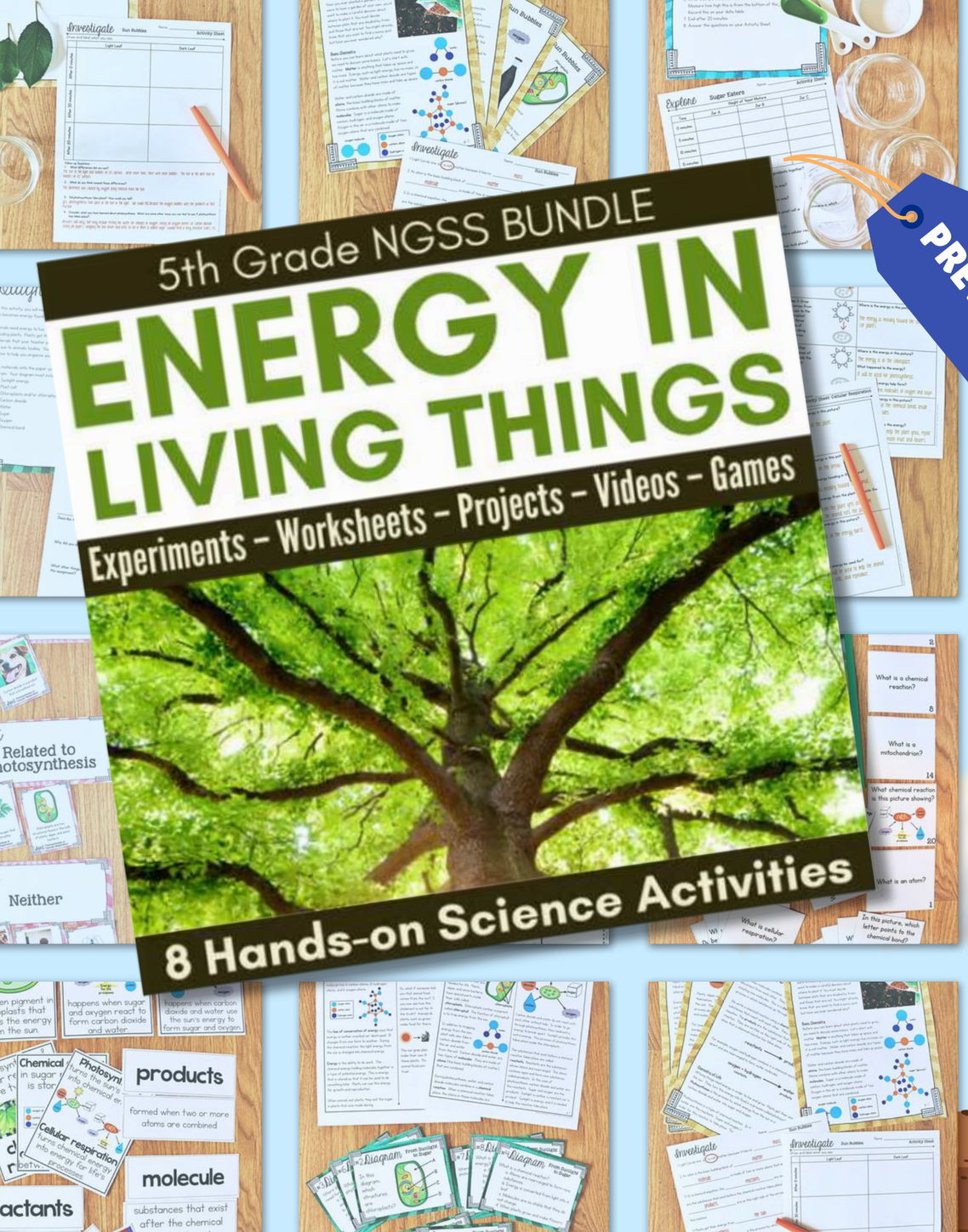


Show How Energy Powers Life!

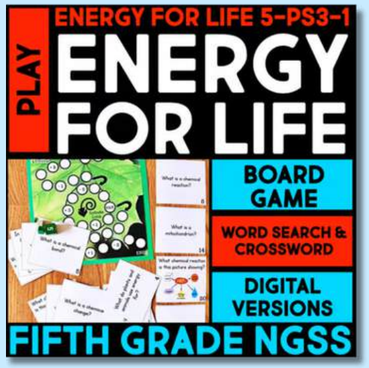
5TH GRADE

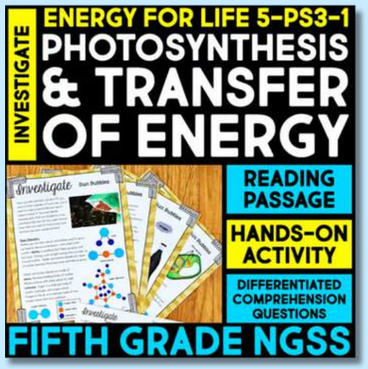
ENERGY IN LIVING THINGS BUNDLE

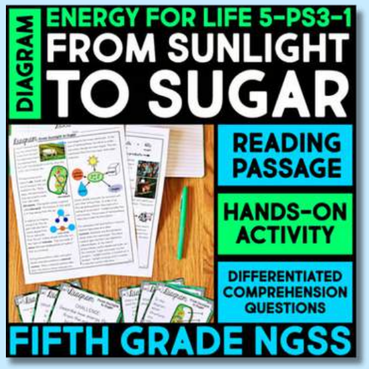
KEEP SCROLLING TO SEE WHAT'S INSIDE!

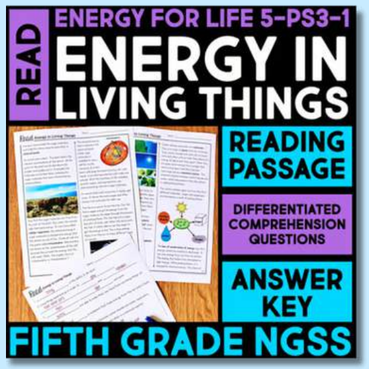
WHAT'S INCLUDED IN THE BUNDLE?

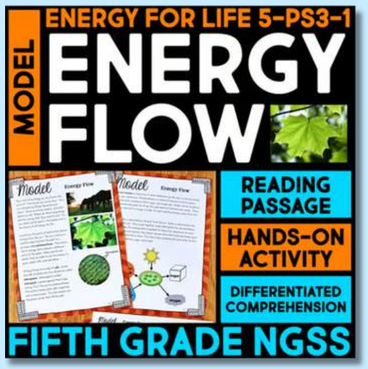


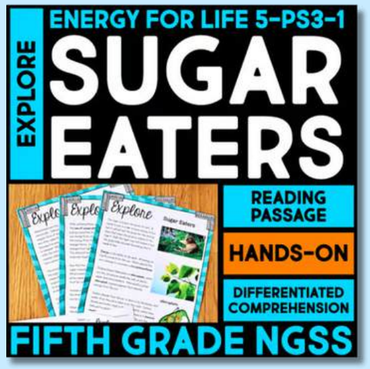


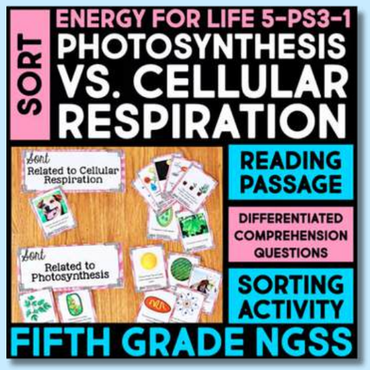






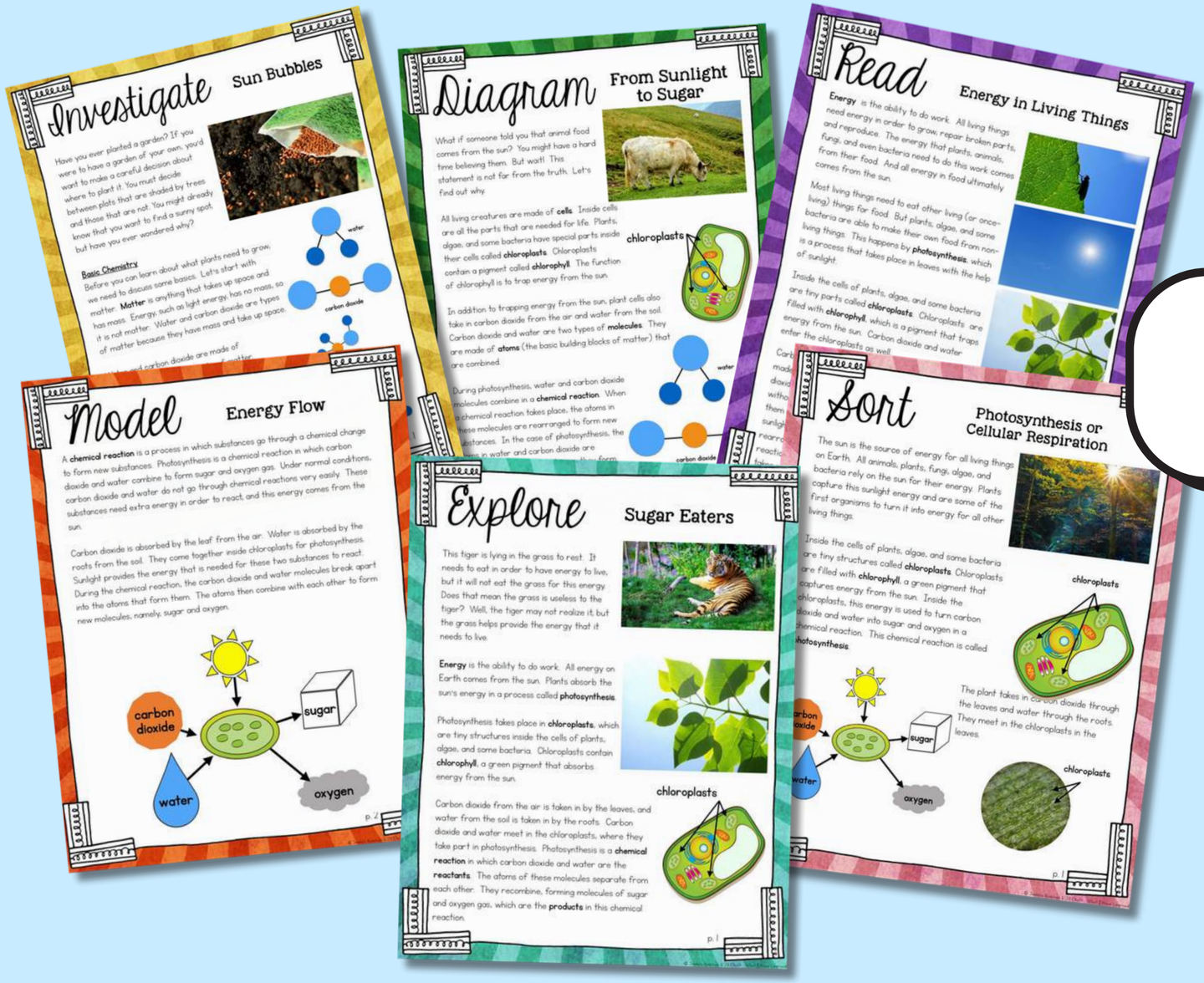






- 8 Science Stations aligned with the NGSS for 5th grade
- 6 Reading passages
- Hands-on activities
- Differentiated comprehension questions
- Digital Videos & Video Games
- Digital Google Slides & Forms

6 READING PASSAGE

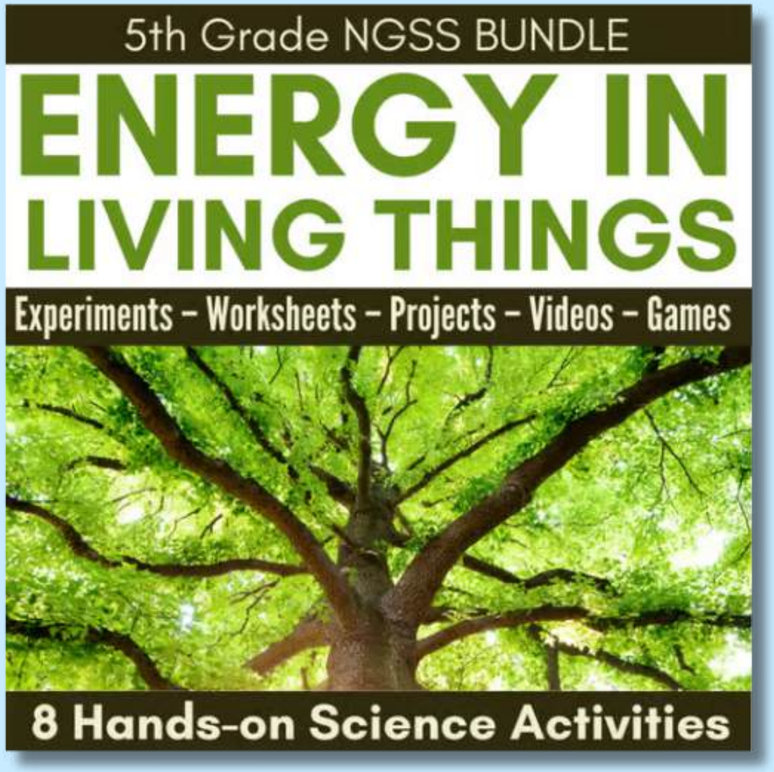


6 Reading Passages that provide all scientific background knowledge for each station

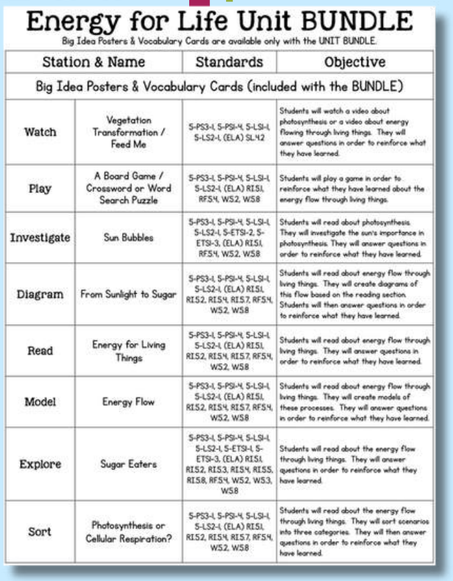
Available in two formats + Digital

Includes pictures and visuals

PAGE OVERVIEW



ADD TO CART



Energy for Life Unit BUNDLE

Big Idea Posters & Vocabulary Cards are available only with the UNIT BUNDLE.

Station & Name		Standards	Objective
Big Idea Posters & Vocabulary Cards (included with the BUNDLE)			
Watch	Vegetation Transformation / Feed Me	5-PS3-1, 5-PS1-4, 5-LS1-1, 5-LS2-1, (ELA) SL.4.2	Students will watch a video about photosynthesis or a video about energy flowing through living things. They will answer questions in order to reinforce what they have learned.
Play	A Board Game / Crossword or Word Search Puzzle	5-PS3-1, 5-PS1-4, 5-LS1-1, 5-LS2-1, (ELA) RI.5.1, RF.5.4, W.5.2, W.5.8	Students will play a game in order to reinforce what they have learned about the energy flow through living things.
Investigate	Sun Bubbles	5-PS3-1, 5-PS1-4, 5-LS1-1, 5-LS2-1, 5-ETS1-2, 5-ETS1-3, (ELA) RI.5.1, RF.5.4, W.5.2, W.5.8	Students will read about photosynthesis. They will investigate the sun's importance in photosynthesis. They will answer questions in order to reinforce what they have learned.
Diagram	From Sunlight to Sugar	5-PS3-1, 5-PS1-4, 5-LS1-1, 5-LS2-1, (ELA) RI.5.1, RI.5.2, RI.5.4, RI.5.7, RF.5.4, W.5.2, W.5.8	Students will read about energy flow through living things. They will create diagrams of this flow based on the reading section. Students will then answer questions in order to reinforce what they have learned.
Read	Energy for Living Things	5-PS3-1, 5-PS1-4, 5-LS1-1, 5-LS2-1, (ELA) RI.5.1, RI.5.2, RI.5.4, RI.5.7, RF.5.4, W.5.2, W.5.8	Students will read about energy flow through living things. They will answer questions in order to reinforce what they have learned.
Model	Energy Flow	5-PS3-1, 5-PS1-4, 5-LS1-1, 5-LS2-1, (ELA) RI.5.1, RI.5.2, RI.5.4, RI.5.7, RF.5.4, W.5.2, W.5.8	Students will read about energy flow through living things. They will create models of these processes. They will answer questions in order to reinforce what they have learned.
Explore	Sugar Eaters	5-PS3-1, 5-PS1-4, 5-LS1-1, 5-LS2-1, 5-ETS1-1, 5-ETS1-3, (ELA) RI.5.1, RI.5.2, RI.5.3, RI.5.4, RI.5.5, RI.5.8, RF.5.4, W.5.2, W.5.3, W.5.8	Students will read about the energy flow through living things. They will answer questions in order to reinforce what they have learned.
Sort	Photosynthesis or Cellular Respiration?	5-PS3-1, 5-PS1-4, 5-LS1-1, 5-LS2-1, (ELA) RI.5.1, RI.5.2, RI.5.4, RI.5.7, RF.5.4, W.5.2, W.5.8	Students will read about the energy flow through living things. They will sort scenarios into three categories. They will then answer questions in order to reinforce what they have learned.



Science Stations Overview

This is a general overview of all science stations in each UNIT BUNDLE.

Watch a Video
At this station, students will watch a video relevant to the topic and answer questions. You have the option of using the included worksheet with the questions or using the task cards and having students respond in their science journals.

Read a Passage
Students read a short passage about the topic and answer questions about the information in the passage. You have the option of using the included worksheet with the questions or using the task cards and having students respond in their science journals.

Play a Game
Students play a game and answer questions about the experience. You have the option of using the included worksheet with the questions or using the task cards and having students respond in their science journals.

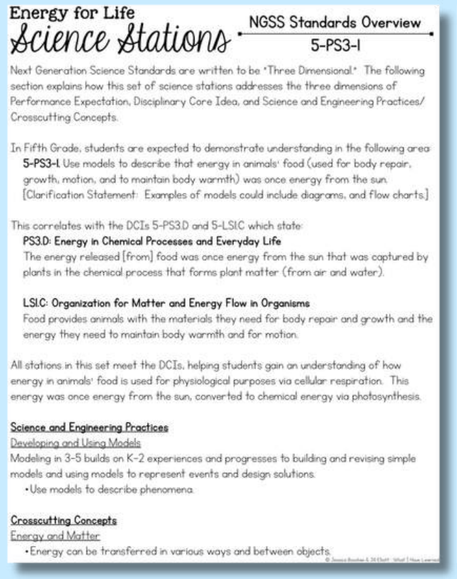
Create a Model
Students use materials to illustrate the science concept and answer questions. You have the option of using the included worksheet with the questions or using the task cards and having students respond in their science journals.

Investigate
Students use materials to investigate the science topic by following directions and recording results. Students answer questions about the investigation.

Explore
Students create a sample and manipulate it using the new science concepts they have learned. Students answer questions based on the effects.

Draw a Diagram
Students draw and label a diagram specific to certain requirements. Students then explain how their diagram meets the requirements.

Sort
Students sort cards into groups or put them in a specific order. Students record the sort and then describe their reasoning.



Energy for Life
Science Stations
NGSS Standards Overview
5-PS3-1

Next Generation Science Standards are written to be "Three Dimensional." The following section explains how this set of science stations addresses the three dimensions of Performance Expectation, Disciplinary Core Idea, and Science and Engineering Practices/ Crosscutting Concepts.

In Fifth Grade, students are expected to demonstrate understanding in the following area:
5-PS3-1. Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun. [Clarification Statement: Examples of models could include diagrams, and flow charts.]

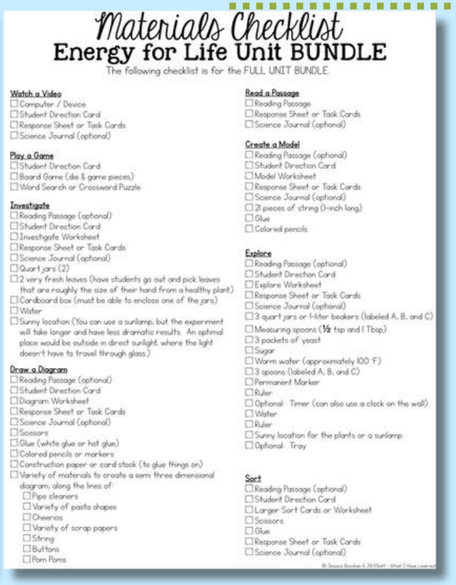
This correlates with the DCIs 5-PS3.D and 5-LS1.C which state:
PS3.D: Energy in Chemical Processes and Everyday Life
The energy released [from] food was once energy from the sun that was captured by plants in the chemical process that forms plant matter (from air and water).

LS1.C: Organization for Matter and Energy Flow in Organisms
Food provides animals with the materials they need for body repair and growth and the energy they need to maintain body warmth and for motion.

All stations in this set meet the DCIs, helping students gain an understanding of how energy in animals' food is used for physiological purposes via cellular respiration. This energy was once energy from the sun, converted to chemical energy via photosynthesis.

Science and Engineering Practices
Developing and Using Models
Modeling in 3-5 builds on K-2 experiences and progresses to building and revising simple models and using models to represent events and design solutions.
- Use models to describe phenomena.

Crosscutting Concepts
Energy and Matter
- Energy can be transferred in various ways and between objects.



Materials Checklist
Energy for Life Unit BUNDLE

The following checklist is for the FULL UNIT BUNDLE.

Watch a Video
- ☐ Computer / Device
- ☐ Student Direction Card
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)

Play a Game
- ☐ Student Direction Card
- ☐ Board Game (die & game pieces)
- ☐ Word Search or Crossword Puzzle

Investigate
- ☐ Reading Passage (optional)
- ☐ Student Direction Card
- ☐ Investigate Worksheet
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)
- ☐ Quart jars (2)
- ☐ 2 very fresh leaves (have students go out and pick leaves that are roughly the size of their hand from a healthy plant)
- ☐ Cardboard box (must be able to enclose one of the jars)
- ☐ Water
- ☐ Sunny location (You can use a sunlamp, but the experiment will take longer and have less dramatic results. An optimal place would be outside in direct sunlight, where the light doesn't have to travel through glass.)

Draw a Diagram
- ☐ Reading Passage (optional)
- ☐ Student Direction Card
- ☐ Diagram Worksheet
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)
- ☐ Scissors
- ☐ Glue (white glue or hot glue)
- ☐ Colored pencils or markers
- ☐ Construction paper or card stock (to glue things on)
- ☐ Variety of materials to create a semi three dimensional diagram, along the lines of:
  - ☐ Pipe cleaners
  - ☐ Variety of pasta shapes
  - ☐ Cheerios
  - ☐ Variety of scrap papers
  - ☐ String
  - ☐ Buttons
  - ☐ Pom Poms

Read a Passage
- ☐ Reading Passage
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)

Create a Model
- ☐ Reading Passage (optional)
- ☐ Student Direction Card
- ☐ Model Worksheet
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)
- ☐ 2 pieces of string (1-inch long)
- ☐ Glue
- ☐ Colored pencils

Explore
- ☐ Reading Passage (optional)
- ☐ Student Direction Card
- ☐ Explore Worksheet
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)
- ☐ 3 quart jars or 1-liter beakers (labeled A, B, and C)
- ☐ Measuring spoons (½ tsp and 1 Tbsp)
- ☐ 3 packets of yeast
- ☐ Sugar
- ☐ Warm water (approximately 100 °F)
- ☐ 3 spoons (labeled A, B, and C)
- ☐ Permanent Marker
- ☐ Ruler
- ☐ Optional: Timer (can also use a clock on the wall)
- ☐ Water
- ☐ Ruler
- ☐ Sunny location for the plants or a sunlamp
- ☐ Optional: Tray

Sort
- ☐ Reading Passage (optional)
- ☐ Student Direction Card
- ☐ Larger Sort Cards or Worksheet
- ☐ Scissors
- ☐ Glue
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)

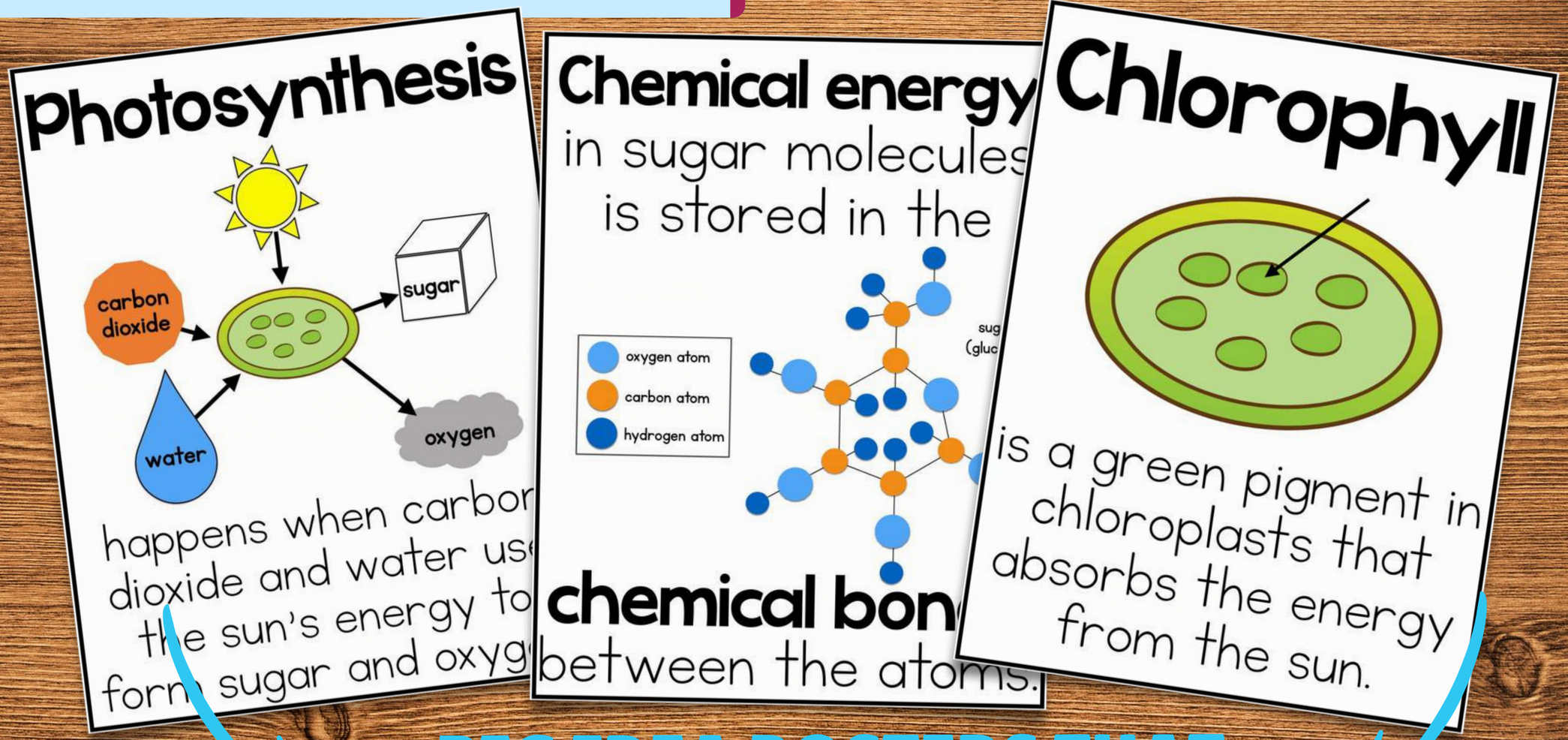
Table of Contents

Science Station Overview

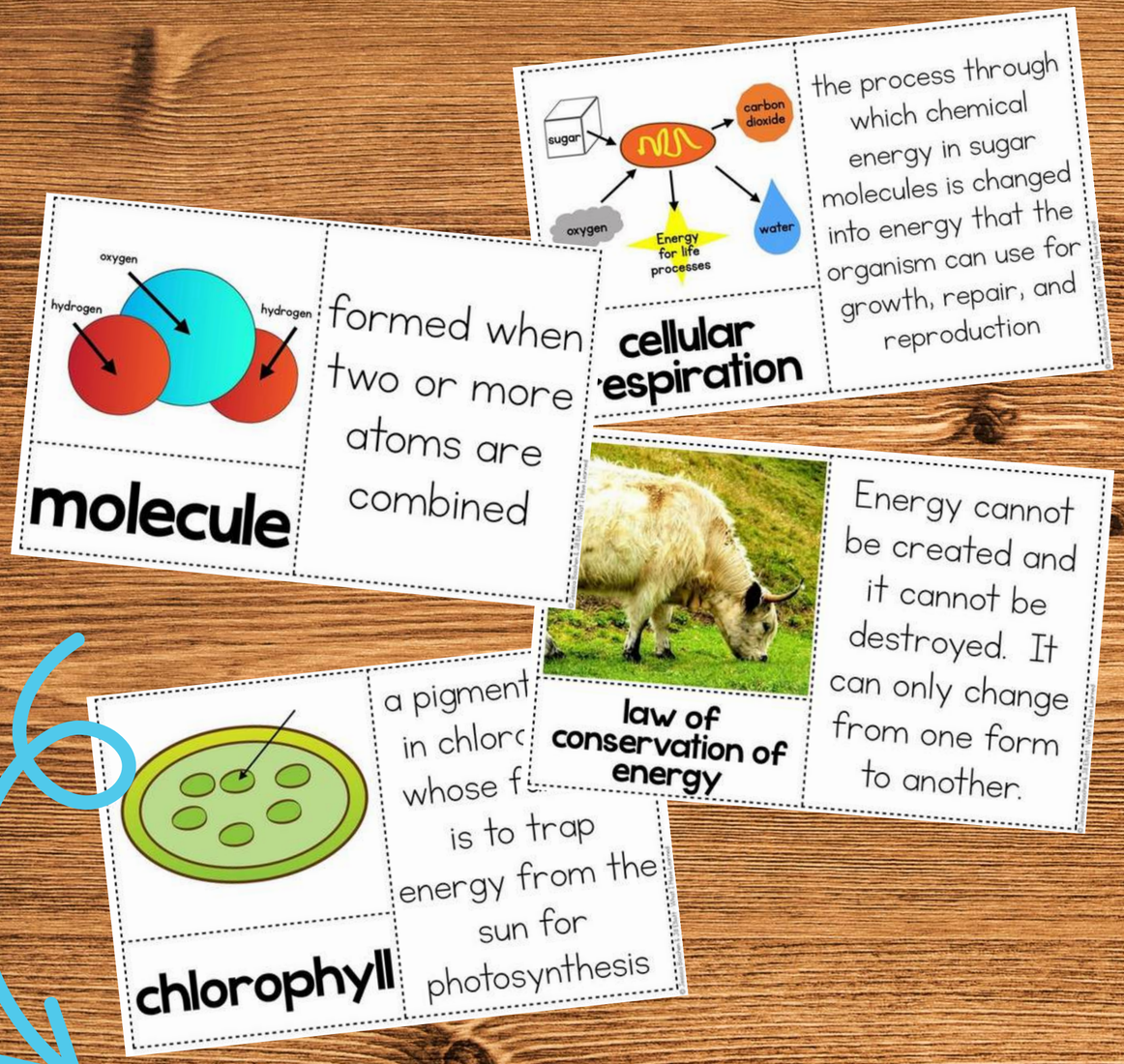
Materials Checklist

Science Stations

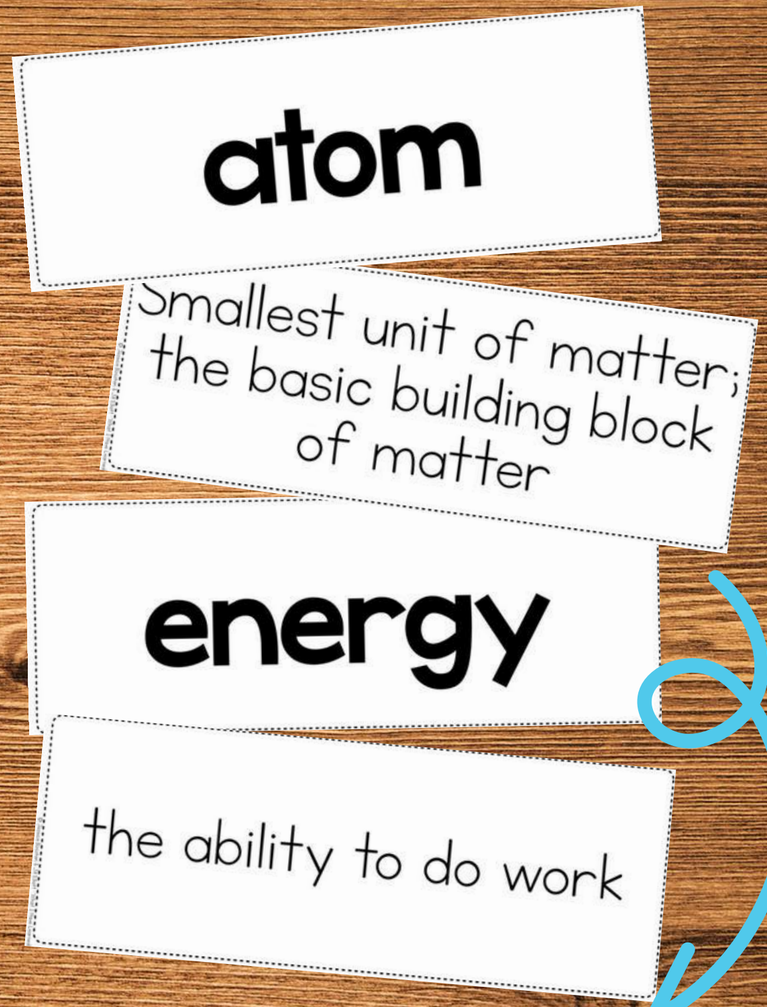
BIG IDEA POSTERS



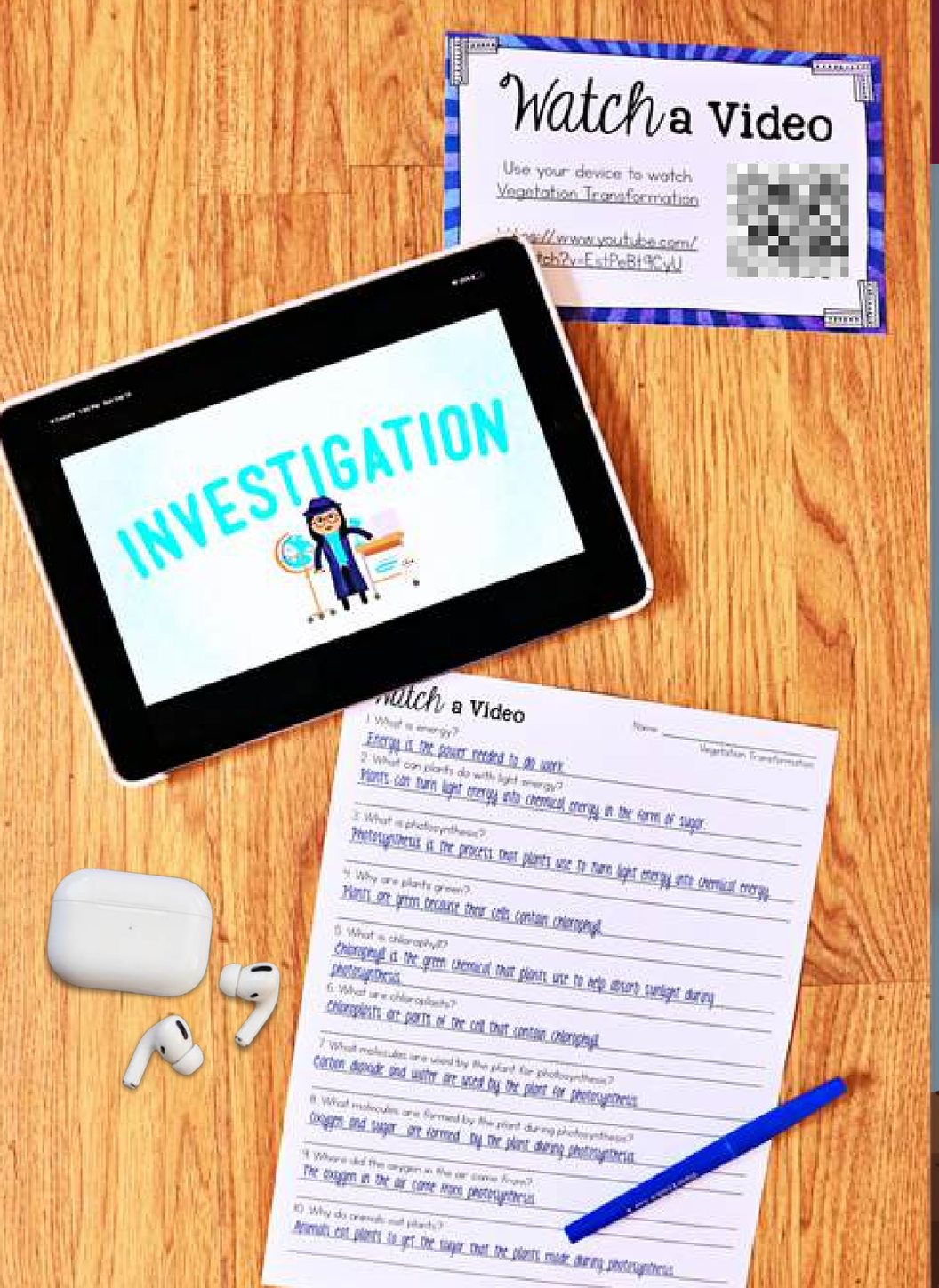
BIG IDEA POSTERS THAT EXPLAIN THE KEY CONCEPTS.



VOCABULARY CARDS WITH PICTURE



VOCABULARY CARDS WITHOUT PICTURE



WATCH STATION

STUDENTS WATCH ONE OF TWO ENERGY IN LIVING THINGS VIDEOS AND ANSWER COMPREHENSION QUESTIONS

> "I loved using these stations for content reinforcement! Awesome resource."
> - Bonnie Benson

PLAY STATION

BOARD GAME, CROSSWORD, OR WORD SEARCH TO REINFORCE ENERGY FLOW VOCABULARY AND CONCEPTS.

> This was a great resource for out entire unit on Energy for Life
> - Melissa H.



INVESTIGATE STATION



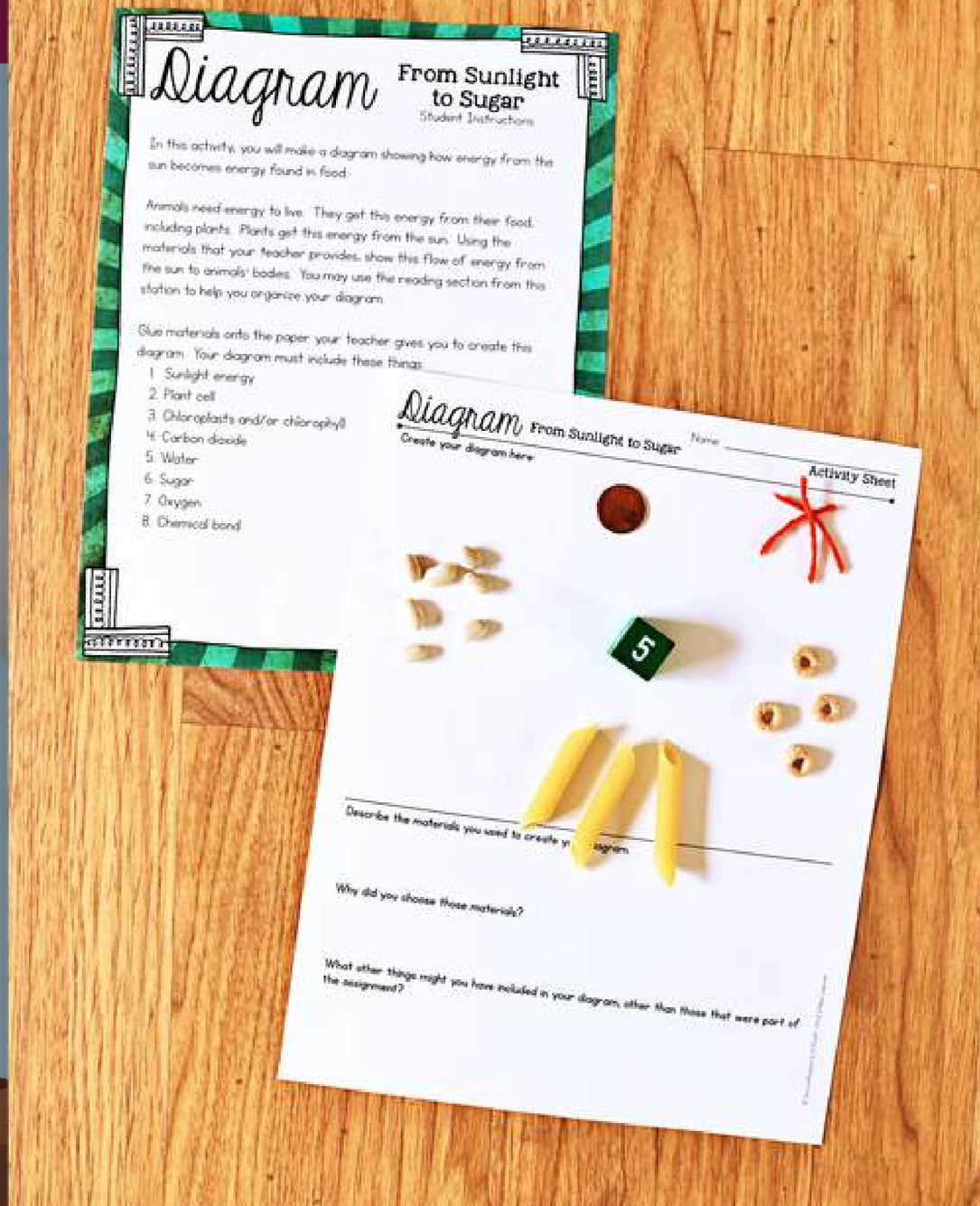
STUDENTS WILL CONDUCT A HANDS-ON EXPERIMENT TO EXPLORE THE SUN'S ROLE IN PHOTOSYNTHESIS.

> "This was a great resource, full of activities that were rigorous."
> - Christina G.

DIAGRAM STATION

STUDENTS MODEL HOW ENERGY FLOWS THROUGH LIVING THINGS.

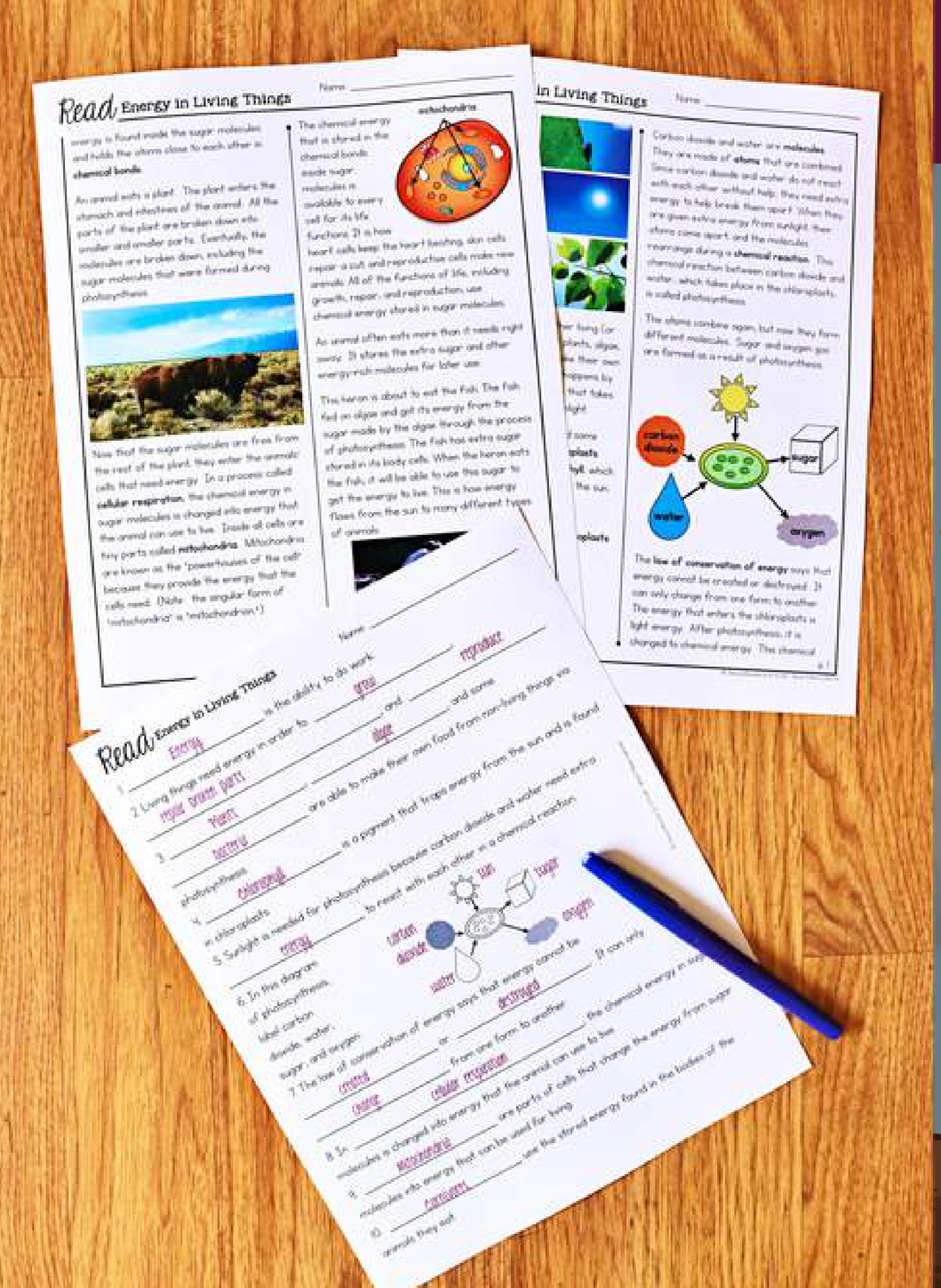
> This is an awesome resource that I'm using with my class when I'm not here.
> - Lianne M.



READ STATION

INFORMATIONAL READING PASSAGE WITH COMPREHENSION QUESTIONS.

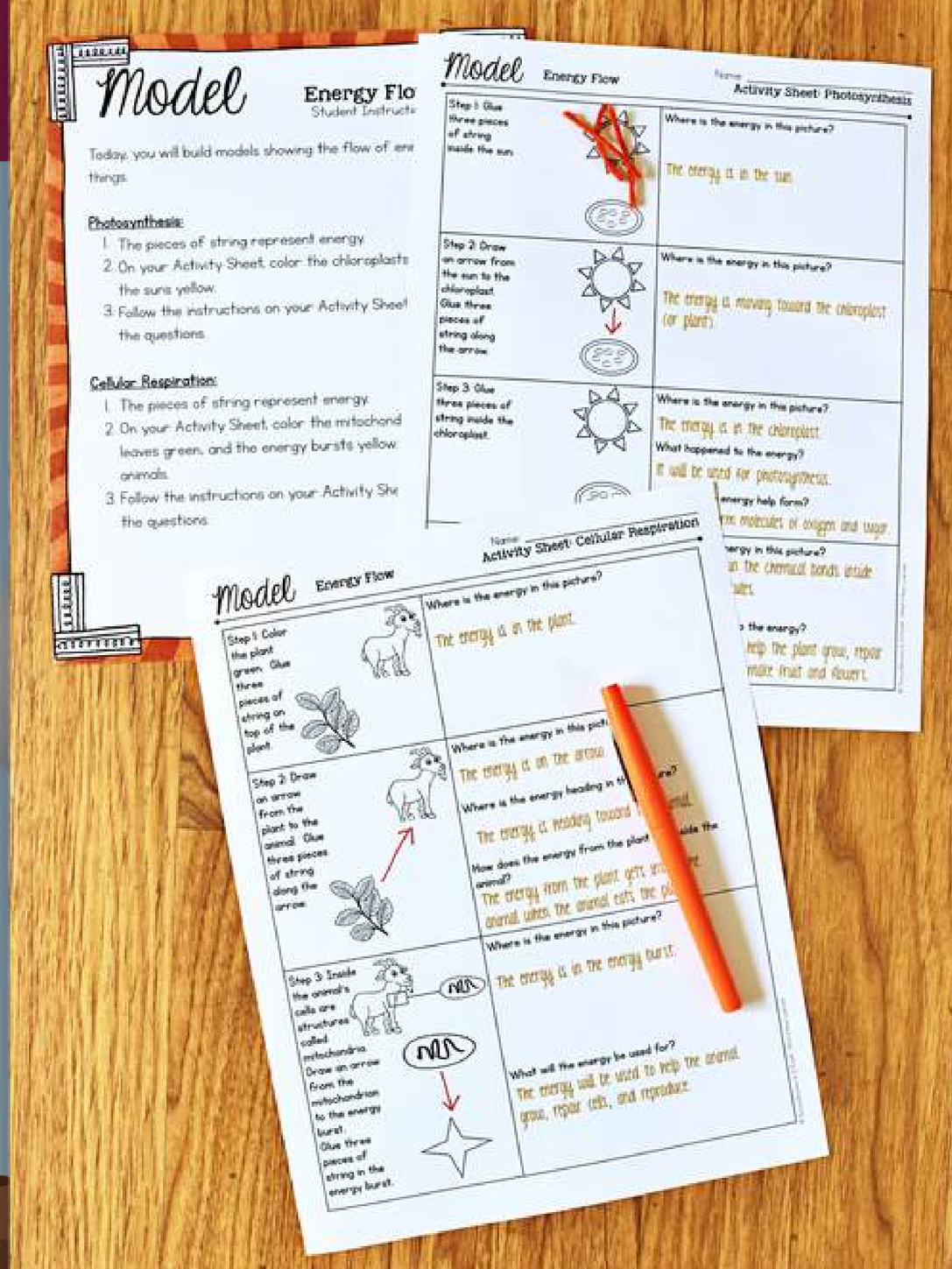
> "Great science resource when learning about energy in living things!"
> - Victoria G.

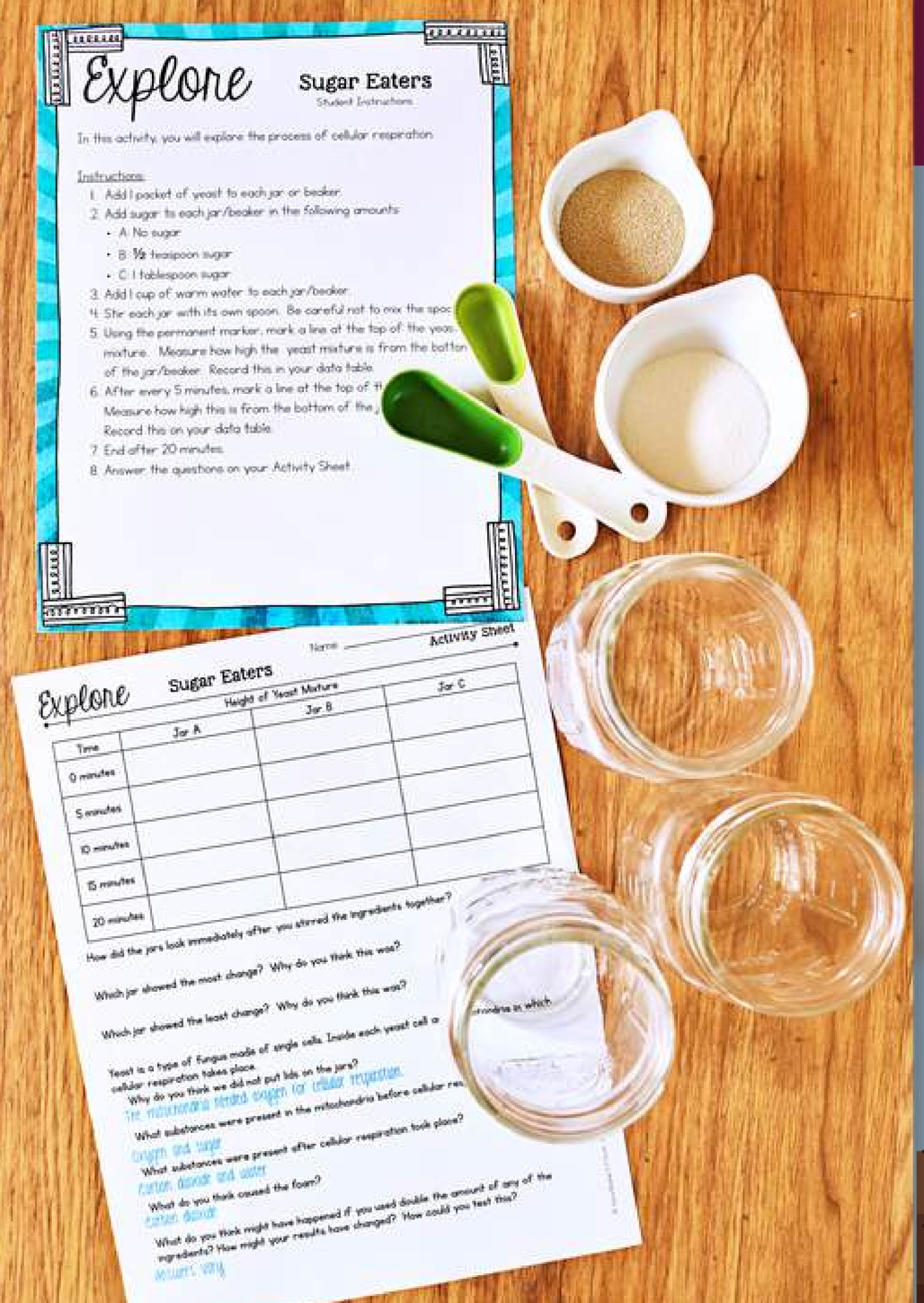


MODEL STATION

STUDENTS CREATE MODELS SHOWING PHOTOSYNTHESIS AND CELLULAR RESPIRATION.

> Great activity to teach students about energy flow through living things
>
> - Passport 2 Learning





EXPLORE STATION

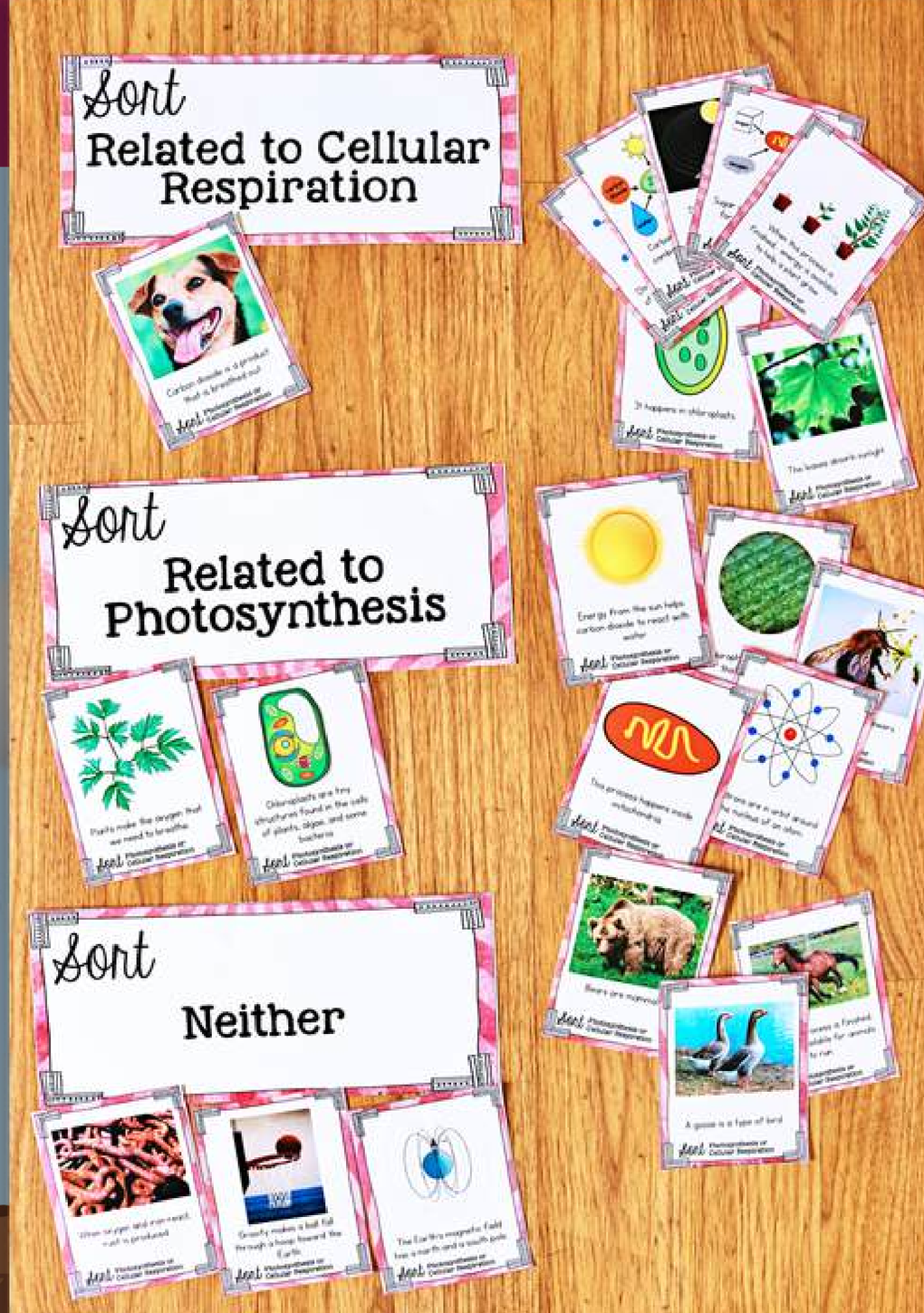
YEAST INVESTIGATION CONNECTING ENERGY TRANSFER AND CELLULAR RESPIRATION.

> “Beautiful and engaging resources! Very detailed and full of fun activities. Loved it!”
> - Stacy B.

SORT STATION

SORTING ACTIVITY WHERE STUDENTS CLASSIFY BASED ON PHOTOSYNTHESIS OR CELLULAR RESPIRATION.

> Great resource to sublimate my unit. Students were very engaged.
> - Debbie P.



WATCH • PLAY • INVESTIGATE • DIAGRAM • READ • MODEL • EXPLORE • SORT

ENERGY IN LIVING THINGS ACTIVITIES

SUGGESTED USES

Learning Stations

Use all eight stations or just a few as learning stations that students complete at their own pace.

Science Centers

Set up a rotation where students visit each center to complete the activities.

Whole Class

Use the activities in a whole class format.

Small Group

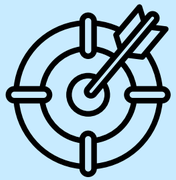
Use the activities with a small group who need extra help.

YOU WILL LOVE THIS BECAUSE



Complete Unit in One Download

Provides everything needed to teach Energy in Living Things without searching for separate labs, readings, and review materials.



Direct NGSS Alignment

All activities support NGSS standard 5-PS3-1, helping students observe and measure properties to identify and classify materials.



Saves Teachers Valuable Time

With ready-to-use materials, digital options, and answer keys included, teachers can quickly implement engaging science instruction.

TEACHERS LOVE IT!

"I have loved all of the resources provided in this unit as a way to help support my students with modeling and understanding photosynthesis. "

Lexi F.



EXCELLENT bundle! Seriously one of my best TpT purchases ever! All extremely high quality materials, LOVE the google forms and slides versions as well as the pdfs to print or include as additional resources as necessary.

The Art and Science Alliance



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Download instantly

Leave a Review
to earn Reward Points
to get more resources!

My passion is making learning accessible to all students.
I love scaffolding learning, breaking down the concepts and building them up so that students can see the connections.
I love figuring out the small components that build up to the big ideas and helping students see it all.



teach MATH | teach SCIENCE | teach READING | teach WRITING

What I have LEARNED