

FUNCTION OF CELLS STATION ACTIVITY

STATION ACTIVITY | NGSS-MS-LS1-2

7 Unique and Engaging Station Activities

Middle School

JUST PRINT AND GO

SCROLL
to take a look inside!

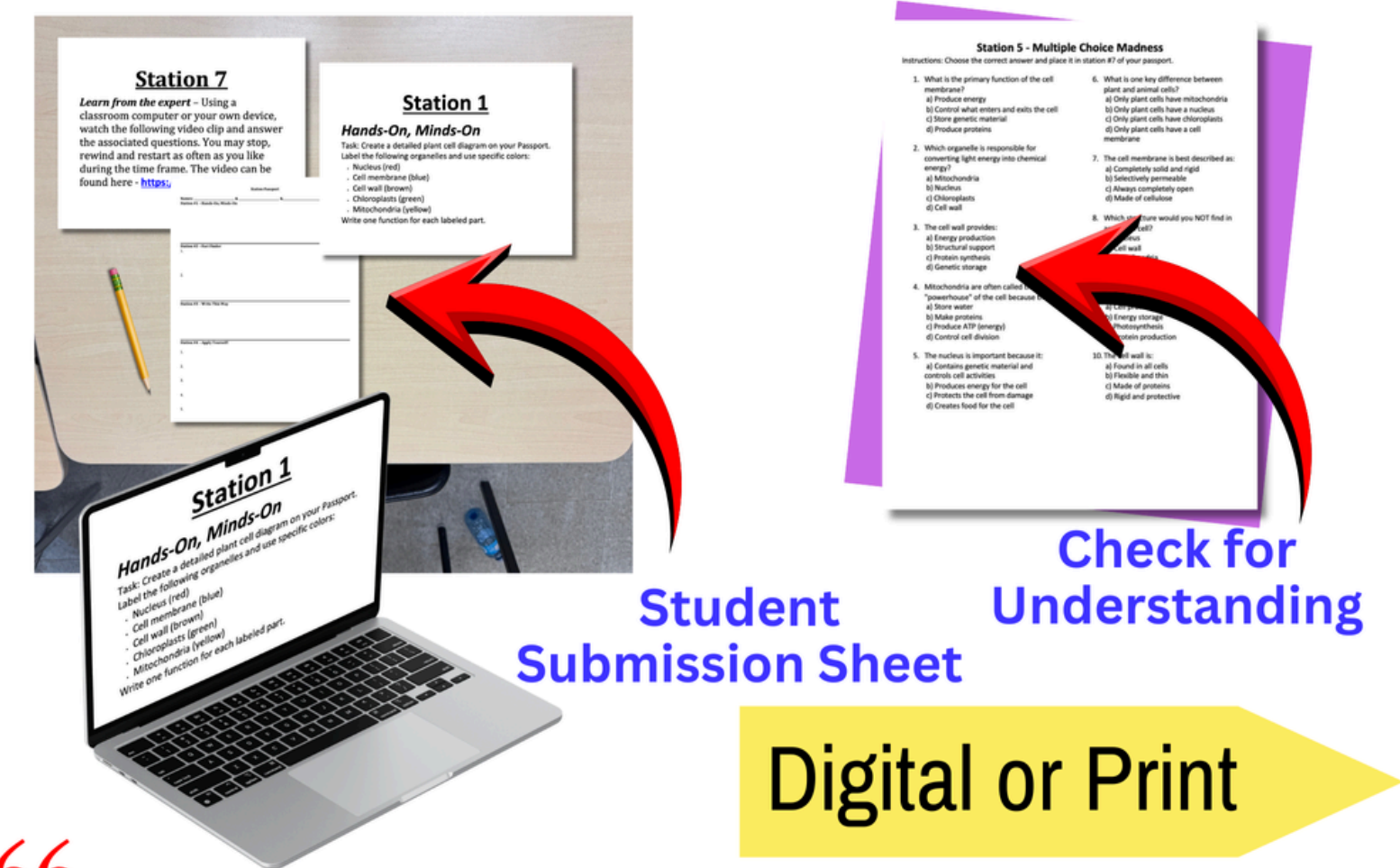


TEACHER BENEFITS

HOW THIS ACTIVITY HELPS YOU

- Minimal prep time required and very quick to mark
- Built-in differentiation for various learning styles
- Easy-to-follow setup instructions and answer keys provided
- Can be used for review, assessment, or concept introduction

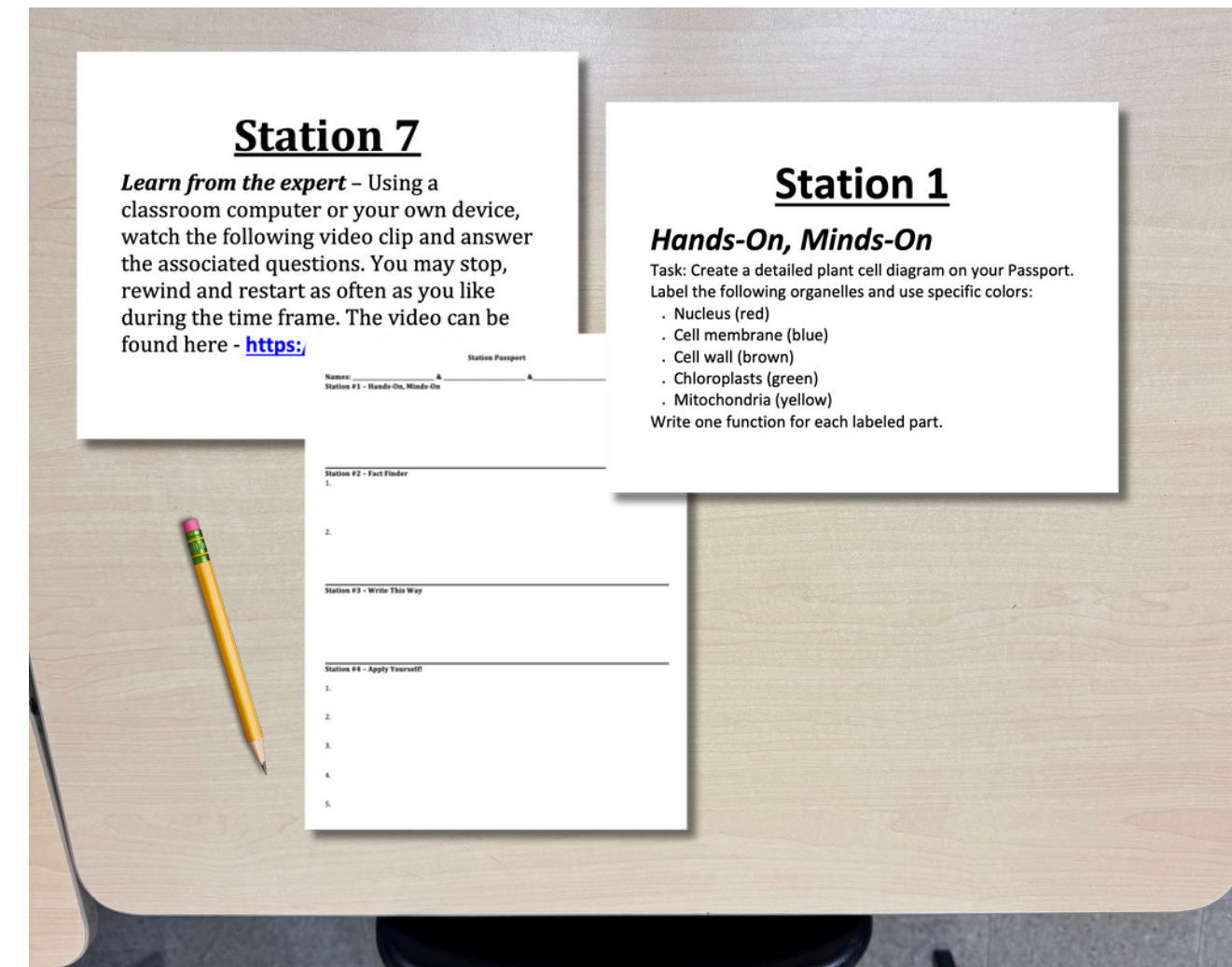
NO PREP
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“ Station Activity Comment: ★★★★★ Extremely satisfied - Simply Amazing!! Students loved this activity. It kept them engaged and busy.

Station Overview

- 1. Hands-On, Minds-On:** Students demonstrate conceptual understanding through drawing or building.
- 2. Fact Finder:** Develops research and digital literacy skills.
- 3. Write This Way:** Strengthens scientific writing and critical thinking.
- 4. Apply Yourself!:** Connects classroom concepts to real-world applications.
- 5. Multiple Choice Madness:** Reinforces key concepts through 10 targeted questions.
- 6. The Question Master:** Promotes higher-order thinking as students create their own assessment questions.
- 7. Word Wizardry:** Students create a summary of what they learned from the lab and what they want to learn.



★★★★★ Extremely satisfied - Fabulous resource! My students learned a ton & perfectly aligned with NGSS standards.

MAIN CONCEPTS COVERED

- Chloroplasts make food, mitochondria make energy.
- Cell membranes control what enters and exits cells.
- Cell walls provide structure and protection.
- Plant cells have unique parts animal cells don't.
- Cells need different parts to work together.
- Each cell part has an important job.
- Plant cells can make their own food.

FUNCTION OF CELLS STATION ACTIVITY

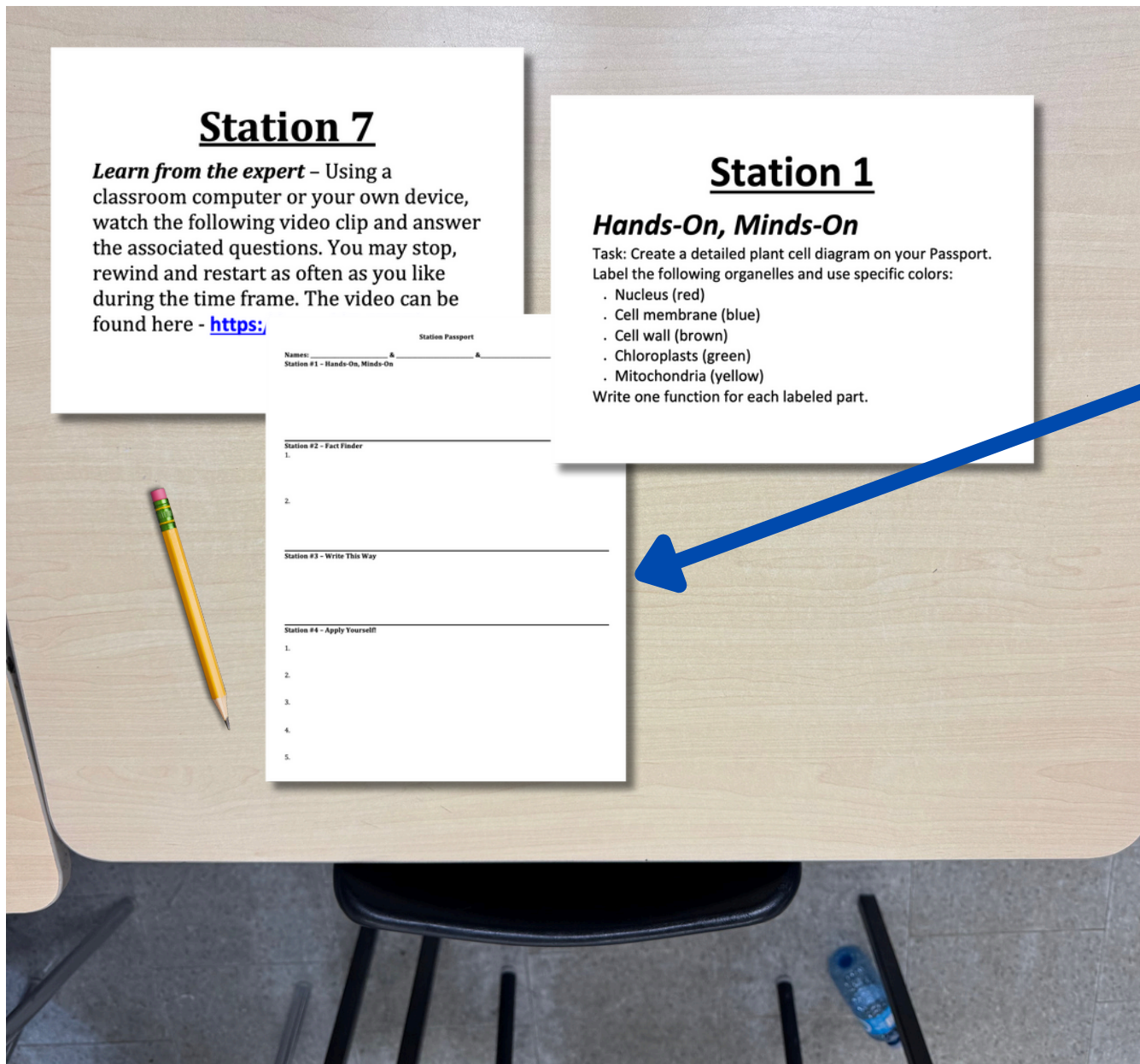
STATION ACTIVITY | NGSS-MS-LS1-2



Your Stations

7 Unique Station Activities
Student Submission Sheet

A seven-station lab with student passports that makes science hands-on, low-prep, and easy to assess.

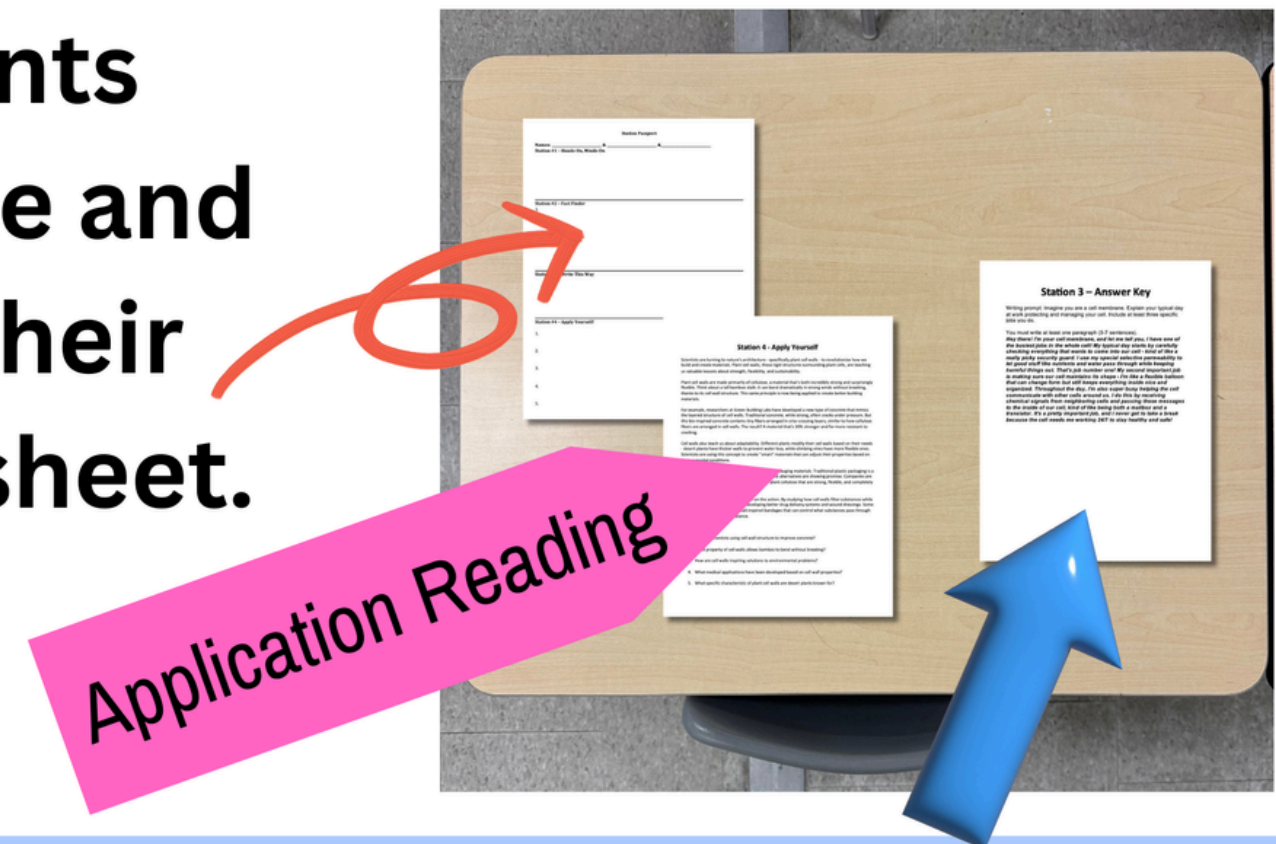


WHAT'S INCLUDED

- 7 unique, ready-to-use station activities
- Student passports for tracking progress
- Detailed teacher instruction guide
- Answer keys for all applicable stations
- Printable station cards
- Easy-to-follow setup instructions

**Incredibly EASY to Setup
and MARK**

1. Place station cards around the room.
2. Assign groups to each station.
3. Students complete and submit their answer sheet.

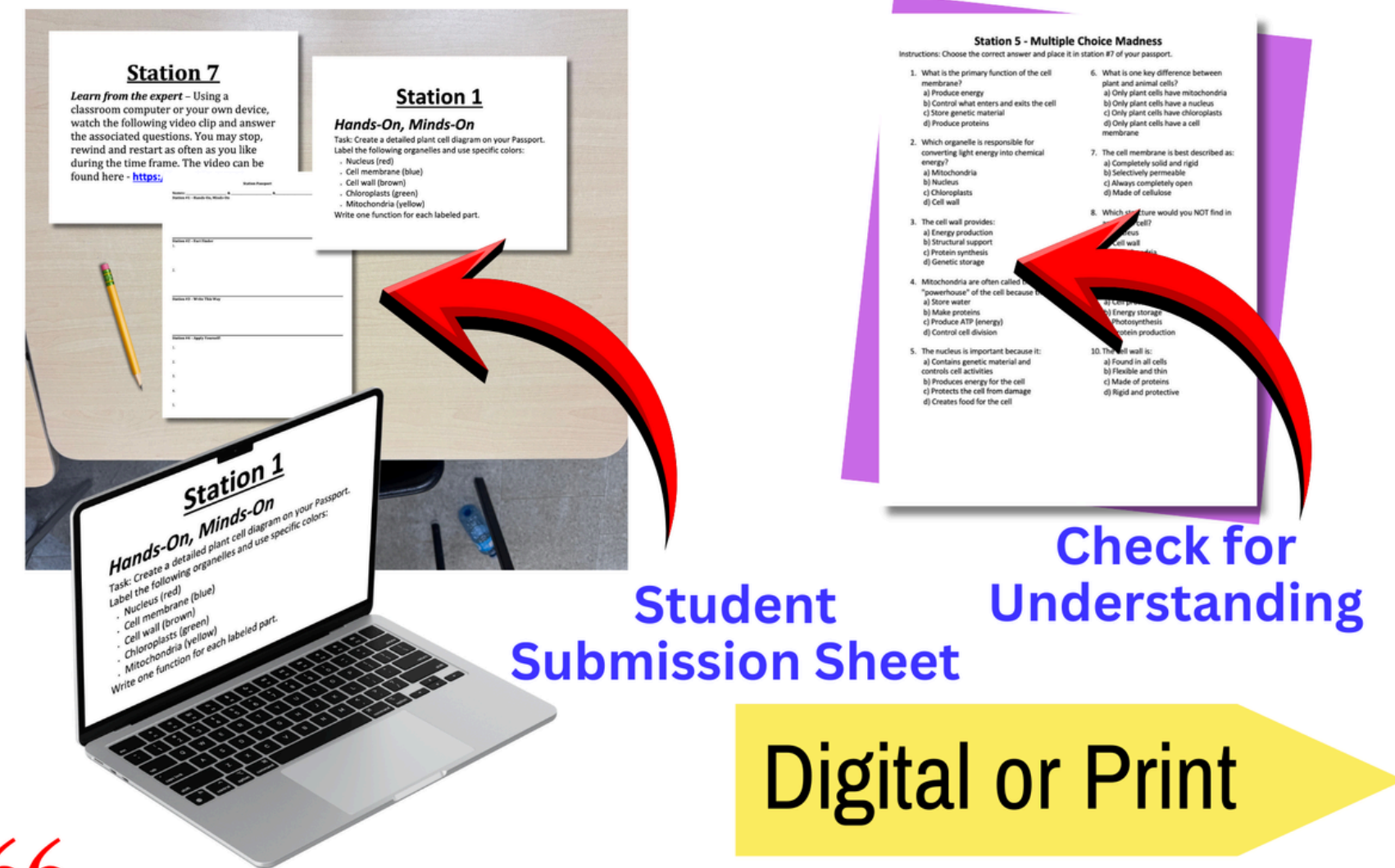


Full Answer Key Included

STUDENT BENEFITS

- Engages multiple learning styles
- Builds various skill sets (research, writing, critical thinking)
- Promotes active learning and student engagement
- Develops independence and time management skills
- Allows for peer collaboration
- Makes real-world connections
- Reinforces key vocabulary and concepts

NO PREP
Just Download and Print



Station 7
Learn from the expert – Using a classroom computer or your own device, watch the following video clip and answer the associated questions. You may stop, rewind and restart as often as you like during the time frame. The video can be found here - <https://>

Station 1
Hands-On, Minds-On
Task: Create a detailed plant cell diagram on your Passport. Label the following organelles and use specific colors:
• Nucleus (red)
• Cell membrane (blue)
• Cell wall (brown)
• Chloroplasts (green)
• Mitochondria (yellow)
Write one function for each labeled part.

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Station 5 - Multiple Choice Madness
Instructions: Choose the correct answer and place it in station #7 of your passport.

1. What is the primary function of the cell membrane?
a) Produce energy
b) Control what enters and exits the cell
c) Store genetic material
d) Produce proteins

2. Which organelle is responsible for converting light energy into chemical energy?
a) Mitochondria
b) Nucleus
c) Chloroplasts
d) Cell wall

3. The cell wall provides:
a) Energy production
b) Structural support
c) Protein synthesis
d) Genetic storage

4. Mitochondria are often called the "powerhouse" of the cell because:
a) Store water
b) Make proteins
c) Produce ATP (energy)
d) Control cell division

5. The nucleus is important because it:
a) Contains genetic material and controls cell activities
b) Produces energy for the cell
c) Protects the cell from damage
d) Creates food for the cell

6. What is one key difference between plant and animal cells?
a) Only plant cells have mitochondria
b) Only plant cells have a nucleus
c) Only plant cells have chloroplasts
d) Only plant cells have a cell membrane

7. The cell membrane is best described as:
a) Completely solid and rigid
b) Selectively permeable
c) Always completely open
d) Made of cellulose

8. Which structure would you NOT find in a plant cell?
a) Nucleus
b) Cell wall
c) Mitochondrion
d) Chloroplast

9. Energy storage in plant cells is primarily:
a) Energy storage
b) Photosynthesis
c) Protein production
d) Genetic storage

10. The cell wall is:
a) Found in all cells
b) Flexible and thin
c) Made of proteins
d) Rigid and protective

Check for Understanding

Student Submission Sheet

Digital or Print

“Station Activity Comment: ★★★★★ Extremely satisfied - Simply Amazing!! Students loved this activity. It kept them engaged and busy.”

Upgrade to the Lab Station MEGA Bundle

Get all my Lab Station Activities plus my
Station Activities.

Station 2

Research – Using your search engine, research: artificial photosynthesis. How does it work? How does it differ from natural photosynthesis? What are the advantages and disadvantages of using it?

Learn From The Expert
Instructions: Go to <https://youtu.be/Usd8pJewKj> and watch the video. You can also use the QR code below. While you are watching the video, answer each question and place your answer in the Learn From The Expert section of your passport. You may re-watch the video as many times as you like in the allotted time. Furthermore, you may re-watch the video while you are at one of the work stations so make sure you record the URL on your passport.



1. What is sound made of?
2. What frequency range can humans hear?
3. How can sound waves break a glass?
4. How does sound levitation work?
5. What is ultrasonic sound? What can it do to a person if they were hit with 20 Hz sound?

ANIMAL AND PLANT ADAPTATIONS STATION ACTIVITY NGSS-MS-LS3-1

Middle School

JUST PRINT AND GO

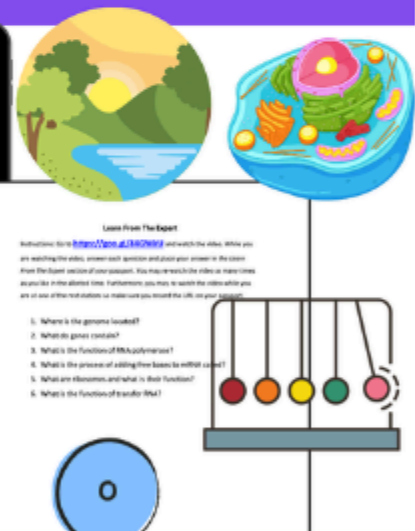
7 Unique Stations

LAB STATION MEGA BUNDLE ACTIVITY

7 Print-Ready Stations | JUST PRINT & GO

Station 2

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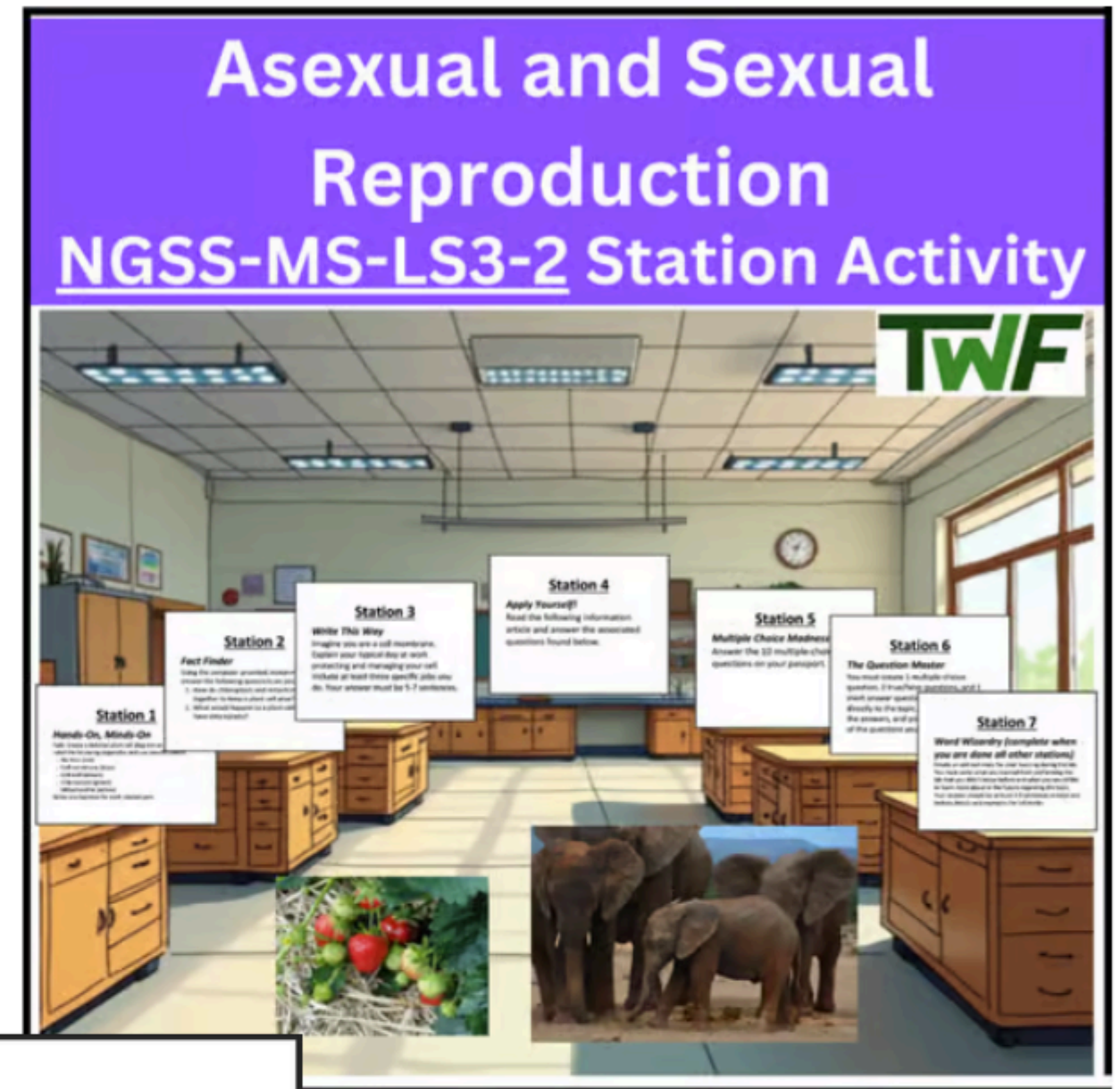
★★★★★ Extremely satisfied - Love that it provides a chance for students to... and do something new every...

Over 100 Lab

Click to
learn more!

★★★★★ Extremely satisfied - I loved all of the Lab stations!! They are a great class activity and give all my students a chance to participate. Each student can work with their strengths and it's a great review or introductory activity.

Would You Like To Try a Station Activity for FREE?



Station 1

Hands-On, Minds-On

Draw a Venn Diagram for sexual and asexual reproduction. The left circle should include the characteristics of sexual reproduction and the right circle, asexual reproduction. The middle where they intersect should have what they have in common with each other.

Station 2

Fact Finder

Using the computer provided, research and answer the following questions on your Passport regarding how *drought* affects population sizes in a grassland ecosystem?

Answer the following questions:

1. Name three organisms that reproduce asexually.
2. What are three advantages of sexual reproduction?
3. Why do some organisms use both types of reproduction?

As a special bonus, I want to send you a few resources that you can use in your classroom tomorrow. Completely free and geared towards what you teach!



Just  **and then choose what you teach!**

thanks
**for your interest
in this resource!**



 devon@teachwithfergy.com