



My Little Scientist Garden & Microscope Lab

Phenomenon Videos • Plant Life Cycles • Digital Microscope Investigation



LITTLE SCIENTIST MISSION TASK STATEMENT



"Over the next few weeks, you will **observe** living plants, **collect data**, explore with a **digital microscope**, and **think like a scientist** as you watch Sammy the Seed grow!"



Little Scientist Name: _____



Kindergarten Class: _____



Investigation Date: _____

☀️ Aligned with Kindergarten NGSS Science & Engineering Practices ☀️

Name: _____

Date: _____

Unit 1: How Does Sammy the Seed Grow?

Exploring the Plant Life Cycle Sequence

▶ VIDEO PHENOMENON

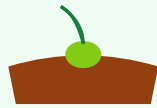
Watch on Discovery Science: "[Time-Lapse: How Tiny Seeds Sprout into Plants!](#)"

👁️ Watch the seed pop open!

📖 **Read with Teacher:** A seed is a tiny sleeping plant. When it gets warm water and light, it wakes up! First, it pushes down a little root. Next, a green baby shoot grows up toward the light. Soon, it has big green leaves!

🎯 **Unit Task Statement:** "Over the next few weeks, I can observe Sammy the Seed, collect growth data, and put the 4 life cycle steps in order from 1 to 4 like a scientist!"

Tiny Sprout Emerging



Stage: Sprout

☐

Little Sleeping Seed



Stage: Tiny Seed

☐

Big Harvest Greens



Stage: Full Plant

☐

Growing Seedling



Stage: Seedling

☐

Name: _____

Date: _____

Unit 2: What Does Sammy Need to Grow?

Investigating Sunlight, Fresh Water, and Nutrients

▶ VIDEO PHENOMENON

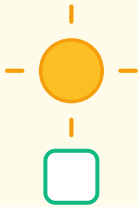
Discovery Science Stream: "[Plants Need Energy! Sunlight & Water Power](#)"

☀ See how leaves catch light!

📖 **Read with Teacher:** Plants are living things. They do not eat pizza or candy! Plants need bright light, fresh water, and clean air. In our garden, plant food mixed in water gives Sammy the strength to grow tall and green!

🎯 **Unit Task Statement:** "Over the next few weeks, I can test plant needs, collect data on what keeps plants healthy, and mark what Sammy needs to survive!"

☀ Bright Light



💧 Fresh Water



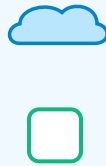
🍬 Sweet Candy



🌱 Plant Food



🌬 Clean Air



🎮 Video Games



Name: _____

Date: _____

Unit 3: Science Tools — What is a Microscope?

Learning the Super Powers of Magnification & Science Lenses

▶ VIDEO PHENOMENON

Discovery Science Learning Link: "[Zoom In! Exploring the Parts of a Microscope](#)"

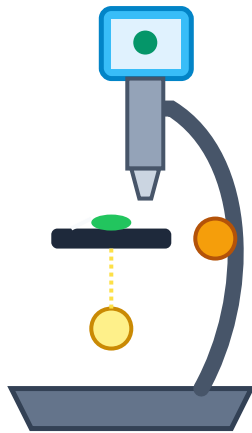


Discover how lenses make tiny things huge!

Read with Teacher: A microscope is a magical science tool with special glass lenses! It zooms in super close to show us tiny details that our eyes cannot see alone—like tiny root hairs, plant cells, and water drops!

Unit Task Statement: "Over the next few weeks, I can use scientific tools, identify the parts of a digital microscope, and trace their science names!"

Digital Microscope Diagram



Trace Science Tool Words:

1. What zooms in close?

LENS

2. What makes it clear?

FOCUS

3. What holds the plant?

STAGE

Name: _____

Date: _____

Activity 3: Digital Microscope Drawing Lab

Observing Plant Veins, Stomata & Tiny Green Cells

▶ VIDEO PHENOMENON

Discovery Science Plant Lab: "[Microscopic Wonders: Plant Leaves & Roots Up Close!](#)"

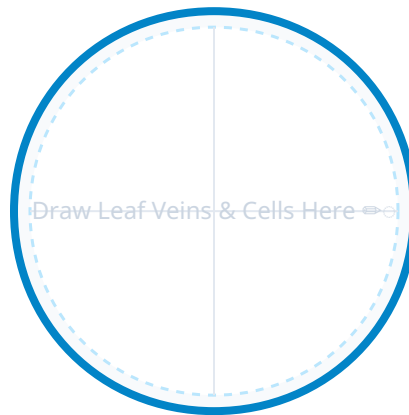
 Look at the plant veins!

 **Read with Teacher:** Today we place Sammy's fresh green leaf under our digital microscope! Look at the big computer screen. See the tiny lines? Those are veins that carry water. See the tiny green dots? Those are plant cells working hard!

 **Unit Task Statement:** *"Over the next few weeks, I can look closely through a digital microscope, collect visual data, and draw the tiny plant cells and veins that I see!"*



My Digital Microscope Viewfinder (Draw What You See!)



 **Scientist Discussion Question:** Tell your partner: *"What surprised you the most when you saw the leaf up close on the microscope screen?"*

Name: _____

Date: _____

Unit 4: Sammy's Seed & Sprout Count

Counting and Number Tracing in the Garden

 **Read with Teacher:** Scientists must count carefully! Count how many green seeds are resting in each row, then trace the numeral on the right with your pencil.

 **Unit Task Statement:** "Over the next few weeks, I can count seeds, record math data in my journal, and trace numbers 1 to 5 like a scientist!"



1



2



3



4



5



JUNIOR BOTANIST & MICROSCOPE EXPLORER

This certificate is proudly awarded to:

For successfully exploring **Sammy the Seed's Life Cycle**, discovering plant needs, investigating leaves under the **Digital Microscope**, and becoming a certified **Little Scientist**!



Teacher Signature

Date