



SPROUTS' MONTHLY BOOK



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Ag in the Classroom**
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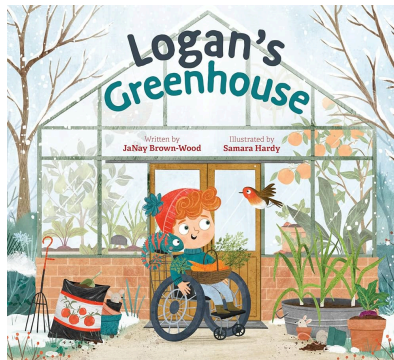
 SC Ag in the Classroom
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June 2024 Monthly Book

Logan's Greenhouse

Written by: JaNay Brown-Wood

Grade Levels Suggested: K-5



Logan is organizing a pet playdate at his greenhouse for all of his friends, and his treats won't be the same without his carrots. He's searched and searched, but his greenhouse is filled with plenty of plants and Logan needs our help to identify them. What do we know about carrots? They're long, orange, and have bushy leaves at the top—and, wait a moment, is that a carrot? No, that's a turnip. Where, oh, where could those carrots be? Can you help Logan find them in time for his playdate?

Desktop Greenhouses

Grade Levels

- 3-5

Time length of lesson

- 2 hours plus observation time

Standards addressed

- 3-LS3-2. Use evidence to support the explanation that traits can be influenced by the environment.
- 4-LS1-1. Construct an argument that plants and animals have internal and external structures that function together in a system to support survival, growth, behavior, and reproduction.
- 5-LS1-1. Support an argument with evidence that plants obtain materials they need for growth mainly from air and water.

Objective of the lesson

- I can make observations about the needs of plants.

National Agricultural Literacy Outcomes:

- Upper Elementary (Grades 3-5) T5.3-5
 - b. Explain how the interaction of the sun, soil, water, and weather in plant and animal growth impacts agricultural production
 - d. Explain the value of agriculture and how it is important in daily life

Link to Detailed Lesson Plan

<https://agclassroom.org/matrix/lesson/700/>

Eating Plants

Grade Levels

- K-2

Time length of lesson

- 2 hours

Standards addressed

- K-LS1-1. Use observations to describe patterns of what plants and animals (including humans) need to survive.
- 1-LS1-1. Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs.
- 2-LS2-1. Plan and conduct an investigation to determine what plants need to grow.

Objective of the lesson

- I can make observations about the different parts of plants.

National Agricultural Literacy Outcomes:

- Early Elementary (Kindergarten - Grade 2) T5.K-2
 - a. Discuss what a farmer does.
 - b. Explain why farming is important to communities
 - d. Identify plants and animals grown or raised locally that are used for food, clothing, shelter, and landscapes

Link to Detailed Lesson Plan

<https://agclassroom.org/matrix/lesson/145/>

Plants Tops & Bottoms

Grade Levels

- K-2

Time length of lesson

- 1 hour

Standards addressed

- K-LS1-1. Use observations to describe patterns of what plants and animals (including humans) need to survive.
- 1-LS1-1. Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs.
- 2-LS2-1. Plan and conduct an investigation to determine what plants need to grow.

Objective of the lesson

- I can identify where fruits and vegetables belong on the MyPlate Diagram.

National Agricultural Literacy Outcomes:

- Early Elementary (Kindergarten – Grade 2) T3.K-2
 - a. Identify healthy food options
 - b. Recognize that agriculture provides our most basic necessities: food, fiber (fabric or clothing), energy, and shelter
 - c. Understand where different types of foods should be stored safely at home

Link to Detailed Lesson Plan

<https://agclassroom.org/matrix/lesson/78/>

Dig 'Em Up

Grade Levels

- K-2

Time length of lesson

- 2, 45 minutes sessions plus observations

Standards addressed

- K-LS1-1. Use observations to describe patterns of what plants and animals (including humans) need to survive.
- 1-LS1-1. Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs.
- 2-LS2-1. Plan and conduct an investigation to determine what plants need to grow.

Objective of the lesson

- I can identify the functions of roots of different vegetables.

National Agricultural Literacy Outcomes:

- Early Elementary (Kindergarten - Grade 2) T5.K-2
 - a. Discuss what a farmer does.
 - b. Explain why farming is important to communities
 - d. Identify plants and animals grown or raised locally that are used for food, clothing, shelter, and landscapes
 - Identify the types of plants and animals found on farms and compare with plants and animals found in wild landscapes

Link to Detailed Lesson Plan

<https://agclassroom.org/matrix/lesson/320/>

- **Additional Resources**

- [Logan's Greenhouse Educator Guide](#)

- **Ag Mags:**

- [English Ag Mag Bundle | American Farm Bureau Foundation for Agriculture](#)
- [School Garden Ag Mag | American Farm Bureau Foundation for Agriculture](#)
- [Natural Resources Ag Mag | American Farm Bureau Foundation for Agriculture](#)
- [Soils Ag Mag | American Farm Bureau Foundation for Agriculture](#)

- **South Carolina Agricultural Information**

- [State Agricultural Facts](#)
- [TOP COMMODITIES](#)
- [Teacher Center | National Agriculture in the Classroom](#)
- https://www.agfoundation.org/files/AgFoundation_2023_ResourceGuide_FINAL_LR.pdf

References:

National Ag in the Classroom Curriculum Matrix:
<https://agclassroom.org/matrix/resource/1267/>

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