

AGRICULTURE

PUMPKIN ACTIVITY WORKBOOK



ASTEAMS



KINDERGARTEN CLASS



Pumpkin Exploration Day

ASTEAMS HANDS-ON LESSON PLAN



LEARNING OBJECTIVES

- Explore pumpkins using their senses
- Understand that Pumpkins grow above ground on vines and can get very big
- Practice counting, grouping, and comparing
- Develop fine motor skills through tracing, drawing, and coloring
- Learn healthy eating and plant growth basics



MATERIALS

- Pumpkins and pumpkin pieces
- Paper plates or napkins
- Plastic knives (child-safe or teacher use)
- Paper towels; Small cups or bags for seeds
- Crayons, pencils, and worksheets



LESSON FLOW

1. Warm-Up (5–10 min): Introduce pumpkins and ask students what they know.

2. Classroom Activities (60 min):

- Touch and describe texture
- Cut open and observe seeds
- Save seeds for planting
- Seed counting
- Smell and taste
- Count and compare sizes

3. Worksheet Activities (60 min):

- Trace the word “pumpkin”
- Review facts & guide
- Size comparison
- Color pumpkins
- Draw a pumpkin patch
- Count and group

4. Discussion (10–15 min): Discuss origin and how to grow. Use YouTube videos for the discussion aspect.

5. Closing (10 min): Students share what they learned.



EXTENSION IDEAS

Roast seeds and bring in for a snack. Talk about the nutrition found in the seeds



Use YouTube videos to reinforce concepts with visual content.

A Pumpkin grows

https://www.youtube.com/watch?v=AB-dfi_0TsQ

Are Pumpkins a Fruit?

<https://www.youtube.com/watch?v=vLFtV4RI4Lg>

From Seed to Pumpkin-Book Reading

<https://www.youtube.com/watch?v=hoaFrW2cFQ>



ASSESSMENT

Observe participation, counting, and growth of understanding.





PUMPKIN ADVENTURES



Fun Facts



Pumpkins are actually a fruit, not a vegetable!



Pumpkins grow very big even over 1,000 pounds!



Usually orange, but can be white, green, or yellow

Draw a pumpkin patch



Growing Guide



Plant seeds directly in soil.



Sun: They love the bright sun!



Watering: Keep the soil moist. Don't water the leaves.



Uses: soup, pie, or snack on oven roasted seeds!

Draw an X on the smaller pumpkin



Count the Pumpkins?





Pumpkin Exploration Day!

Touch • Taste • Count • Grow

Class Activity



Teacher Prep

What to Bring:

- Pumpkins (small whole)
 - Ask students to bring in pumpkin pieces
- Paper plates / napkins
- Paper towels
- Bag or cups for seeds
- Crayons & paper
- Teacher knife

👋 1. TOUCH & DESCRIBE

Ask:

- Is the pumpkin smooth or bumpy?
 - Is it hard or soft?
 - What color do you see?
-

👃 2. SMELL & TASTE

- Let children smell first
- Then taste a small piece

Ask:

Does it taste sweet, bland, or soft?

📊 3. COUNT & COMPARE

- Count how many pumpkin pieces are in the class
- Compare big vs small

👉 Student Task:

- “We have ___ pumpkin pieces”
 - Point to the biggest one
-

🔍 4. INSIDE DISCOVERY

Cut open a cucumber

Ask:

- What do you see inside?
- What shape are the seeds?

👉 Student Task:

- Draw the inside

🌱 5. SEED SAVING

- Scoop out seeds
- Rinse and dry them

Explain:

“These seeds can grow NEW pumpkins!”

👉 Student Tasks:

Take out seeds, wash, dry and stick seeds on paper towels to dry completely

🍊 6. PULP & TEXTURE TEST

Explain:

“Pumpkins have stringy pulp inside!”

Kids:

- Touch the inside of the pumpkin
- Feel the pulp and seeds

Ask:

Is it slimy, stringy, or sticky?

🍊 7. PUMPKIN CLEANING CHALLENGE

- Let kids help remove seeds from the pulp

Ask:

- Was it easy or messy?

👉 Student Task:

- Share with a classmate what it felt like
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📊 8. SEED COUNTING

- Count seeds in a small groups

Compare:

Who has more? Less?

👉 Student Task:

- State how many seeds they have
 - Determine who has the most
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🎨 9. CUCUMBER PRINT ART

- Dip pumpkin pieces in paint
- Make shapes with the pieces

👉 Teaches:

Patterns + shapes + counting





pumpkin



