

Grade Levels(s): K , 2nd , 3rd , 5th

Subject(s): Science

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Preparing for Pumpkins 28892 min

Objective:

Students will predict outcomes, identify variables, plant seeds, interpret data and compare and contrast, all while gaining a valuable lesson on the life cycle of a pumpkin seed.

Big Idea:

How long does a seed to germinate to become a pumpkin?

1. Warm Up / Anticipatory 7 min

Students will pretest their knowledge of new vocabulary (seed, germinate, soil, climate, nutrients, harvest) by playing a game of match (teacher created multimedia presentation numbered slides with one word per slide and one definition per numbered slide. Students must successfully match words to definitions by slide number.

2. Investigation and New Learning 85 min

Students will:

- watch a video on growing pumpkins via YouTube at <https://youtu.be/KRdjiulgrtE> by glacious11.
- predict outcome of planted seed(s)
- write any wonders on the pumpkin wonders chart.
- plant actual seeds and provide necessary water, light and nutrients to soil.
- create a digital journal (per group) to record pictures, seed type, soil type, and temperature.
- monitor growth of seed.
- interpret data about light, soil and growth.
- compare and contrast results through harvest.

3. Review & Check for Understanding 30 min



Students will write a journal entry related to their group's work. Students should include their original predictions and answers to their wonders. Students should also include a sequence of their steps and end result of the project.

Note: The teacher should divide students into 4 groups. Each group will plant a seed. Jobs within each group should be assigned so that one person is not left to do all the work.

Standards: K-LS1-1. 2-LS4-1. 2-LS2-1. 3-LS3-2. 5-LS1-1.