

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.