

# Pumpkin Fest

**Age Group:** First – Fourth Grade

**Time:** 2 hours

## **Standards of Learning**

Science: 1.1, 1.4, 1.7, 2.1, 2.4, 2.7, 2.8, 3.1, 3.7, 3.8, 4.1, 4.4, 4.5

Math: 1.1, 1.3, 1.18, 2.12, 2.15, 2.24, 2.5, 3.14, 3.21, 4.10, 4.20

## **Objectives**

1. Students will conduct investigations through experiments with pumpkins in which they will make observations, make predictions, collect data and formulate questions based on data. (Science 1.1, 2.1, 3.1, 4.1)
2. Students will investigate and understand that pumpkins have life needs, functional parts, undergo a series of orderly changes in their life cycle and can be classified according to certain characteristics. (Science 1.4, 2.4, 3.8, 4.4, 4.5)
3. Students will investigate and understand the relationship of seasonal changes and weather to the life cycle of the pumpkin. (Science 1.7, 2.7)
4. Students will investigate and understand that pumpkin plants produce oxygen and food and are a source of useful products. (Science 2.8)
5. Students will investigate and understand that soil provides the support and nutrients necessary for plant growth. (Science 3.7)
6. Students will count objects between 1 and 100 and write the corresponding numeral. (Math 1.1)
7. Students will count by ones, twos, fives and tens to 100. (Math 1.3, 2.5)
8. Students will collect and organize data on pumpkins using observations measurements and experiments. (Math 1.18, 3.21, 4.20)
9. Students will estimate and then use a ruler to make linear measurements to the nearest inch or centimeter while measuring the circumference of a pumpkin. (Math 2.12, 3.14, 4.10)
10. Students will estimate and then determine weight/mass of pumpkins using a scale. (Math 2.15)
11. Students will record data from pumpkin experiments using pumpkins and then use the data to predict which of two events is more likely to occur if the experiment is repeated. (Math 2.24)

## **Book List**

**Growing a Pumpkin**  
**The Pumpkin Patch**  
**From Seed to Pumpkin**  
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Helen Lepp Friesen  
Elizabeth King  
Wendy Pfeffer  
Jan Kottke