

Early Math Concepts  
Pre-K and Kindergarten/ Measurement

## Measurement

**Estimated Time:** 45 minutes

### **Content Standards:**

Estimate and measure the length of objects using nonstandard units.

### **Lesson Objective:**

Learn how to distinguish from large and small objects.

Learn how to perform basic ruler measurements.

### **Materials Needed:**

This lesson is great at Halloween or Thanksgiving for younger children. Other objects can be substituted to measure and recreate the My Pumpkin Book using appropriate object in its place.

- Book: The Pumpkin Book by Gail Gibbons
- My Pumpkin book
- Pencil
- Crayons
- Yarn
- Different size pumpkins (one pre-cut)
- Carving kit
- Paper Plates
- Pumpkin Math Poster Boards
- Sequence of Events sheet

### **Pre-instructional Techniques:**

- ❑ Statement of Review: “We have talked about estimating how many jelly beans are in a jar. Can anyone tell me about what you do to make an estimation?”
- ❑ Statement of today’s Objective in Student’s language: “Today we are going to learn how to take measurements using a ruler. We use measurements in everyday life. The doctor keeps up with how long we are and farmer’s keep up with how large their crop gets from year to year.”
- ❑ Motivation Technique: At the reading circle the teacher will read The Pumpkin Book to spark students’ interest in pumpkins. The teacher will take a moment to ask the students’ what all can be measured as they continue to read.

### **Instructional Procedures/Strategies:**

- ❑ Direct Teaching: Show the students how to measure objects with the ruler. Show the students how to begin at the 0 and look at the number the

- last number that the object lines up with. (When starting out realize that students will not be able to line up the objects, this is why we use string to distinguish between which one is longer. The children will also not be able to distinguish tenths and halves so students will be measuring to the nearest inch or center meter.)
- Guided Practice: Show students how to use the yarn to measure height and width. Use people and other objects to reinforce which one is taller, shorter, more round, etc.
  - Independent Practice: Separate the children into their table groups so they can work on their pumpkin book. The children will have their plates so they can count seeds. The children will also be able to start placing their measurements on the charts that have been placed around the room.
  - Correction and Extension Activities: Each child will be given the opportunity to create a pumpkin face out of the seeds that they have counted. This will require them to make measurements for the shapes that they will use on the pumpkin.

**Formative Evaluation:**

The students will be evaluated on completion of their sequence of events worksheet. They will also be evaluated on completion of their pumpkin book and cooperative behavior.

**Interdisciplinary Emphasis:**

- For gifted children: The gifted child will be able to make exact measurements using the ruler (using halves and tenths). The gifted student will also be able to do large addition math (two and three column addition).
- For the children with disabilities: Repetition of measuring and changing measuring activities will help reinforce the measuring concept. Also this activity helps in counting, colors, reading, and socializing skills.
- For the language barrier: For the children who have trouble cannot speak English, working with other children will help develop their English.
- For the transfer student: Social interaction will help the student feel more at home.

**Bibliography:**

[www.lessonplans.com](http://www.lessonplans.com)

[www.askeric.com](http://www.askeric.com)

ECE Block Materials

Brookville Elementary School Resources and Guide.