Prediction and Measurement of Apples

K / 1st

Objective:
To estimate and then measure the height, weight and circumference of an apple using non-standard units; to create a class graph of how many bites it took to eat an apple slice.

Materials:

- Appplewood™ Fresh + The Produce Moms® Apples
- Apple slicer
- Attached Worksheet
- Non-standard units of measure such as paper clips, teddy bear counters, and cubes
- Scale

Kindergarten Standards:

- K.CC.4a I can count objects using the correct number names
- K.MD.1 I can describe an object by its height, length, and weight
- K.MD.2 I can look at two objects and tell you if one is longer or shorter / I can look at two objects and tell you if one has more or less

First Grade Standards:

- 1.MD.2 I can use an object to find the length of a bigger object / I can measure an object using another object without gaps or overlaps — for example, the table is 11 crayons long without spaces between or overlapping of crayons
- 1.MD.4 I can organize, display and answer questions about three different categories of information

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Lesson

- After watching the virtual field trip, talk to the students about how we can measure objects such as apples to find their height, weight, and circumference — demonstrate each measurement using an object other than an apple.
- Discuss what it means to predict. Have students practice predicting the height of objects around the room and then measure to show actual height.
- Pass out one worksheet to each student and one apple to a pair of students.
- On the worksheet, have students make their predictions for the height, weight and circumference of their apple, as well as how many bites they think it will take for them to eat one slice of apple.
    - For the height, the students will use cubes. They will predict how many cubes tall they believe the apple is and then work together to stack the cubes to measure the height.
    - For the weight, the students will use teddy bear counters and a scale. They will predict how many bears they think will weigh the same as the apple and then work together to measure the weight.
    - For the circumference, the students will use paper clips to circle around the apple. They will predict how many paper clips they will need and then work together to circle them around the apple.
    - After they have completed these measurements, the teacher will slice their apple. The students will predict how many bites it will take for them to eat one slice.
- After all students have eaten their apple slice, the teacher will work with the entire class to create a graph of how many bites it took to eat the slices.
    - Use the graph to answer questions such as, "How many students took the most bites?" "How many students took the least bites?"

Name: **Date:**

	Prediction	**Measurement**
Height — How Tall?	_____ Cubes Tall	_____ Cubes Tall
Weight — How Heavy?	_____ Teddy Bears	_____ Teddy Bears
Circumference — How Round?	_____ Paper Clips	_____ Paper Clips
How many bites to eat one slice?	_____ Bites	_____ Bites

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