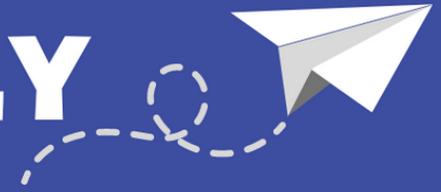




LESSONS ON THE FLY

Curated resources from your friends at WGUV & PBS Learning Media.



Lesson Title: Candy Volume

Subject: Math

Grade: 3-5

Standards: bit.ly/3PTQagC

Directions:

Step 1: Watch math refresher video.

Step 2: Facilitate class discussion about making an estimated guess regarding the number of gumballs within the container . Use the “think-pair-share” model to have students share their answers to the following questions:

- What does the term volume mean?
- How many gumballs do you think are in this rectangular container?
- Would this number change if these gumballs were in a triangular container?

Step 3: Pass out a rectangular container and a bag of marbles to each group.

Step 4: Ask students to pour marbles into their designated container

Materials:

1. Bag of gumballs in a clear rectangular container
2. Math refresher video: bit.ly/3PTQagC

Step 5: Ask students to estimate the number of marbles that are within their container and record their number on a piece of paper and a reasoning as to why they came up with that estimate.

Step 6: Ask students to carefully take out all the marbles within their containers and to record the actual number of marbles that were within the container. Ask the following questions,

- How close was your estimate?
- How could you make a better estimate?

Step 7: After the activity, explain that volume is the space a solid, liquid, or gas takes up; reference the gumballs and ask the students if the gumballs are a solid, liquid or gas. **Emphasize that volume is not the same as weight, volume is the amount of space an object is taking up.**

Step 8: Have the students now watch Math refresher video, and have each group come up one at a time with an estimated guess regarding the number of gumballs within the container using the formula provided in the video.

- Length X Width X Height

Step 9: Share the real number of gumballs that are within the container, and then have a class discussion regarding why the formula was closer to the actual number versus the guess our groups made.

Step 10 (Optional): The group with the closest estimated guess receives the container of gumballs.