

The Biggest Mouth in Class

By Eric Muller



Purpose:

You are to figure out who has the biggest mouth in class (based on volume).

1. Break class into groups.
2. Nominate your choice for the person with the biggest mouth in your group.
3. Create a table of all nominees.

Name of nominee	Size of mouth in cubic centimeters (cm ³)	Size of mouth in milliliters (ml)
1.		
2.		
3.		
4.		
5.		

4. You may only use the following materials to figure out the volume of your nominee's mouth (have students figure this out!):
 - 2 disposable cups
 - A graduated cylinder
 - A marker pen
 - Water

For the easiest way to do this activity, see the next page.

5. Rules:
 - a. You may only pour water from the cup...water from a GC can't be poured into someone's mouth.
 - b. You may not spit into a cup or the graduated Cylinder.... only the sink.
 - c. When pouring...aim for the mouth!!!!
 - d. Be careful of spills.
6. After you take your nominee's mouth measurement, write the data in the table above.

7. Who's has the biggest mouth:

The biggest mouth in class belongs to = _____

The easiest way to do this activity:

1. Fill a disposable cup with water.
2. Mark the level of the water with a marker pen.
3. Have your nominee lean backward over a sink with a paper towel on their clothing.
4. Carefully pour water in the victim's (nominee's) mouth.
5. After pouring:



- a. Fill a Graduated Cylinder with water and note the volume of water in the GC (V_1)
- b. Use a graduated cylinder to refill the cup to the previously marked level.
- c. Note the lower level in the GC (V_2)
- d. Subtract the $V_1 - V_2 = V_f$
- e. V_f is the volume of water in the nominee's mouth.

