

# **Did you figure it out?!**

**If not, no worries! It's a great thing to practice. Here are the procedures we will actually be using today. You do not need to copy them down, a copy will be added to the class website. Just add a note to your lab notebook saying you will be using the teacher provided procedures.**

# Eeeewwww!!!!



- You will weigh the gum before chewing and after chewing to figure out how much sugar dissolved in your mouth!
- Procedure: Do the procedure for one of the types of gum on your station. Then repeat for the second type of gum on your station.
- Collect the data from other groups for the last two types of gum since you will not be testing every type of gum yourself.

# **Eeeewwww!!!!**



- 1) Use balance to record mass of the EMPTY CUP.**
- 2) Add unchewed pieces of gum WITHOUT WRAPPERS. Record mass of CUP+UNCHEWED GUM – weigh ALL pieces of the same type at the same time! We want a large sample size!**
- 3) Chew gum for at least 5 minutes. Chew ALL pieces of the same type at the same time! We want a large sample size!**
- 4) Spit gum into the paper cup. Minimize amount of saliva going into cup!**
- 5) Weigh and record the mass of the CUP+CHEWED GUM**
- 6) THROW THE CUP+CHEWED GUM IN THE TRASH CAN!!!!**
- 7) Repeat with the next type of gum.**
- 8) Get data from another group for the two types of gum you did not chew**

# Data Tables

## Type of Gum #1:

Mass of EMPTY CUP	Mass of CUP+UNCHEWED GUM	Mass of UNCHEWED GUM	Mass of CUP+CHEWED GUM	Mass of CHEWED GUM	Mass of SUGAR per piece of gum

# Calculations

- 1) Make sure to be doing the math for ONE PIECE of gum – you didn't chew one piece at a time so your data is not for one piece! You need to account for that in your calculations!**
- 2) No dimensional analysis line method with units – no points!**
- 3) Nutritional labels are up front – only look at the end! I will post them on the website at the end of the day too.**

# Juicy Fruit

## Nutrition Facts

15 servings  
per container  
**Serving size**  
1 Stick (2.7g)

**Calories** 10  
per serving

Amount/serving % Daily Value

**Total Fat** 0g 0%

**Sodium** 0mg 0%

**Total Carb.** 2g 1%

Total Sugars 2g

Incl. 2g Added Sugars 4%

**Protein** 0g

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PRODUCED WITH  
GENETIC ENGINEERING

# Trident

30% FEWER CALORIES THAN SUGARED GUM. CALORIE CONTENT OF THIS SIZE STICK HAS BEEN REDUCED FROM 5 TO 3 1/2 CALORIES.

## Nutrition Facts

14 servings  
per container

**Serving size**  
1 stick (1.9g)

**Calories** <5  
per serving

Amount/serving % Daily Value

**Total Fat** 0g 0%

**Sodium** 0mg 0%

**Total Carb** 1g 0%

Amount/serving % Daily Value

**Total Sugars** 0g

Incl 0g Added Sugars 0%

**Sugar Alcohol** 1g

**Protein** 0g

Not a significant source of saturated fat, *trans* fat, cholesterol, dietary fiber, vitamin D, calcium, iron, and potassium.

INGREDIENTS: SORBITOL, GUM BASE, XYLITOL, GLYCERIN, NATURAL AND ARTIFICIAL FLAVOR; LESS THAN 2% OF: ACESULFAME POTASSIUM, ASPARTAME, BHT (TO MAINTAIN FRESHNESS), MANNITOL, SOY LECITHIN, SUCRALOSE.

PHENYLKETONURICS: CONTAINS PHENYLALANINE CONTAINS: SOY.  
MONDELEZ GLOBAL LLC, EAST HANOVER, NJ 07936 USA  
[www.tridentgum.com](http://www.tridentgum.com) COMMENTS? CALL 1-800-524-2854



CHEWING TRIDENT GUM AFTER EATING AND DRINKING CLEANS AND PROTECTS TEETH. CHEWING TRIDENT GUM MAY HELP REDUCE THE RISK OF CAVITIES. \*VS PRIOR TRIDENT FORMULA.

# Gum Balls

## Nutrition Facts

About 154 servings per container

**Serving size** 1 piece (2g)

Amount per serving

**Calories** 10

% Daily Value

**Total Fat** 0g 0%

**Sodium** 0mg 0%

**Total Carbohydrate** 2g 1%

Total Sugars 2g

Includes 2g Added Sugars 4%

**Protein** 0g

Not a significant source of saturated fat, trans fat, cholesterol, dietary fiber, vitamin D, calcium, iron and potassium

**INGREDIENTS:** SUGAR, DEXTROSE, CORN SYRUP, GUM BASE, GUM ARABIC, TAPIOCA DEXTRIN, TITANIUM DIOXIDE, CONFECTIONERS GLAZE, CARNAUBA WAX, ARTIFICIAL FLAVORS, ARTIFICIAL COLORS (FD&C RED 40, BLUE 1, YELLOW 5, YELLOW 6, RED 3), CORN STARCH, BHT (TO MAINTAIN FRESHNESS).  
SOY MAY BE PRESENT.

# Double Bubble

## Nutrition Facts

about 72 servings per container

**Serving size** 1 piece (6g)

Amount per serving

**Calories** 20

% Daily Value

**Total Fat** 0g 0%

**Sodium** 0mg 0%

**Total Carbohydrate** 5g 2%

Total Sugars 5g

Includes 5g Added Sugars 10%

**Protein** 0g

Not a significant source of saturated fat, trans fat, cholesterol, dietary fiber, vitamin D, calcium, iron and potassium.

**INGREDIENTS:** SUGAR, DEXTROSE, CORN SYRUP, GUM BASE, ARTIFICIAL FLAVORS, ARTIFICIAL COLOR (FD&C RED 3), CORN STARCH, BHT (TO MAINTAIN FRESHNESS).  
SOY MAY BE PRESENT.