## Activity 4. Count the Cubes! (15-20 mins)

#### **Key Messages**

- Knowing what is in drinks helps us to make healthy choices.
- Sugar is a major ingredient in many popular drinks.

#### **Objectives**

- To determine and report how many cubes/teaspoons of sugar are in various drinks.
- To use nutrition labels to find information about sugar in drinks.

#### **Preparation**

You need

- 200 sugar cubes (2 boxes)
- 9 lunch baggies
- 9 plastic cups
- Permanent markers
- Sticky notes
- Poster: How Much Sugar Are You Drinking?
- Sip Smart! BC™ Drink Cut-outs

#### Also:

- Make overhead copy of Overhead 5: How to Read a Label.
- Label the plastic cups with the names and serving size of the 9 drinks from the poster.
- Cover the sugar cubes on the poster with sticky notes.
- Review Backgrounder: Ingredients on Labels (page 117).
- Optional: find a 591 mL pop bottle with a nutrition label that lists nutritional information for a smaller serving size like 250 mL or 355 mL (or use cola *Drink Cut-out*).

# The Punchline!

Just 1 drink may use up our 13 cube sugar limit for the day – and that doesn't include sugar from muffins, cookies, candies, and other sweet foods.



# Level 1 and Level 2 plastic cup to

### Adivity

- Assign the 9 drinks from the poster, a bag of sugar cubes and a plastic cup to 9 groups of students.
- Explain that each cup represents the actual container size of the drink.
- Have students guess the number of sugar cubes in their designated drink and fill the labelled cup with that number.
- Have each group report their guess to the class.

#### 10 minutes

Level 1

- Uncover the number of sugar cubes on the poster How Much Sugar Are You Drinking? to compare facts with the student's guess.
- Explain the concept of label reading with the help of Overhead 5: *How to Read a Label*.
- Hand out matching Sip Smart! BC<sup>™</sup> Drink Cut-outs and ask students to find sugar in the ingredient list.

#### 5 minutes

Level 2

- Explain the concept of label reading with the help of Overhead 5: *How to Read a Label*.
- Do the math for the example on the label: 12 g sugar = 3 cubes of sugar.
- Hand out the matching Sip Smart! BC<sup>™</sup> Drink
   Cut-outs and let the students read the label and
   do the math.
- Uncover the number of sugar cubes on the poster How Much Sugar Are You Drinking? to compare facts with students' results.

#### **Activity Tips**

1 teaspoon or 1 cube sugar = 4 grams Sugars are listed below Carbohydrates on the label.

#### Cubes of sugar on Poster:

#### Cubes of sugar on additional Sip Smart! BC™ Drink Cut-outs:

Water	0 cubes/250 mL
Chocolate milk	6 cubes/250 mL
Chocolate soy beverage	5 cubes/250 mL
100% orange juice	5 cubes/200 mL
Citrus C	10 cubes/355 mL
Coffee/tea	1+/250 mL



Teacher Resource 24: How Much Sugar is in Your Drink?



# **Nutrition Facts**

Per 1 can (355 mL)

Amount	% Daily Value
Calories 160	
Fat 0 g	0 %
Saturated 0 g + Trans 0 g	0 %
<b>Cholesterol</b> 0 m	g
<b>Sodium</b> 30 mg	1 %
Carbohydrate 4	0 g <b>10</b> %
Fibre 0 g	0 %
Sugars 40 g	
Protein 0 g	
Vitamin A 0 %	Vitamin C 0 %
Calcium 0 %	Iron 0 %

NGREDIENTS: 'CARBONATED WATER, GLUCOSE-FRUCTOSE, SODIUM CITRATE, CAFFEINE

Overhead 5: How to Read a Label

# Ingredients on Labels

A food additive is any substance that is added to a food or drink in order to preserve it, maintain its quality or make it more appealing. More than 850 additives are authorized by Health Canada for use in Canada. Below are some examples of common food additives you can find on the **Sip Smart! BC**<sup>TM</sup> Drink Cut-outs. **Sip Smart! BC**<sup>TM</sup> Drink Cut-outs represent some of the most common drinks consumed by Grade 4-6 students in BC.

Food Additive	Examples
Gelling and thickening agent: thicken drinks to give body and texture	carageenan, ester gum, maltodextrin
Anti-caking agent: allows powders to run freely	trisodium phosphate, disodium phosphate, tricalcium phosphate, monopotassium phosphate
Vitamins and amino acids: nutrients that are needed in small amounts for growth and good health. Because the body cannot make them, you need to get them from what you eat and drink	pantothenic acid (vitamin B5), vitamin A palmitate, taurine
Naturally occurring substances: may have health benefits but little to no quality research exists to prove this claim	glucoronolactone, inositol
Phytochemicals: compounds that are produced by plants	lutein
Sweeteners: sweeten food without adding calories	acesulfame-potassium, aspartame, mannitol, sorbitol, xylitol
Acids: give a sharp flavour and act as a preservative	citric acid, sodium citrate
Oils: thicken foods to give texture and body	vegetable oil
Plant extracts: may have some health benefits but are not tested in children for safety, may contain caffeine	ginseng, guarana, yerba mate

#### What about % Daily Value?

The % Daily Value represents the percentage of a recommended daily amount that 1 serving of this food or drink provides.

For example, a label may show that a serving of a drink provides 15% of the daily recommended amount of vitamin C. This means you still need another 85% to meet the recommended goal. The % Daily Value is based on a 2,000-calorie diet for adults older than 18.

#### References

Eat Right Ontario. Table adapted from: Facts on Food Additives, 2016

Health Canada, Frequently Asked Questions About Nutrition Labelling, December 2009

Health Canada, Lists of Permitted Food Additives, 2013