

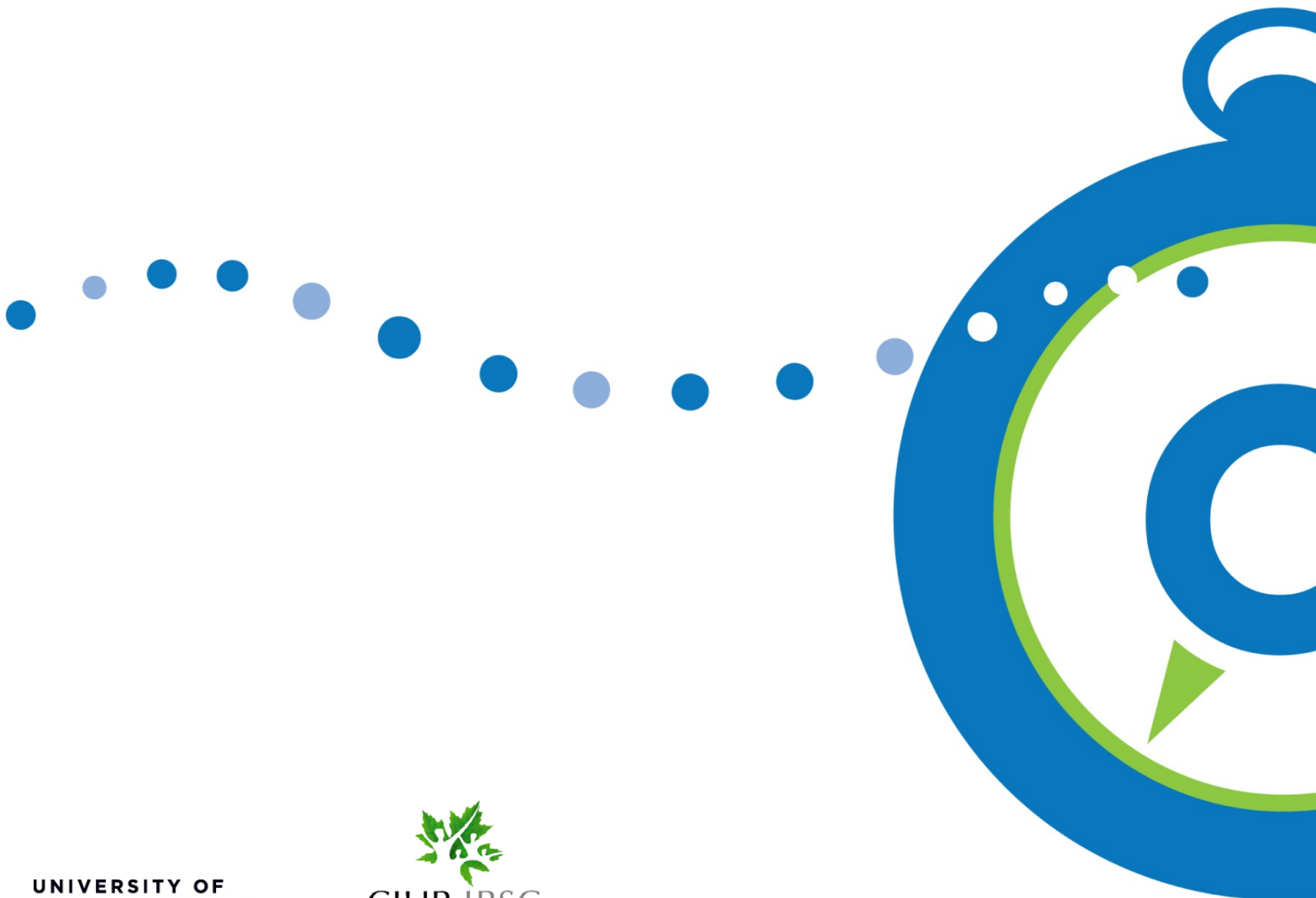


Cohort study evaluating how changes in school programs, policies, and resources impact youth health behaviours

Development of the COMPASS Student Questionnaire

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Introduction

COMPASS is a longitudinal study (starting in 2012-13) designed to follow a cohort of grade 9 to 12 students attending a convenience sample of Ontario secondary schools for four years to understand how changes in school environment characteristics (policies, programs, built environment) are associated with changes in youth health behaviours [1]. COMPASS originated to provide school stakeholders with the evidence to guide and evaluate school-based interventions related to obesity, healthy eating, tobacco use, alcohol and marijuana use, physical activity, sedentary behaviour, school connectedness, bullying, and academic achievement. COMPASS has been designed to facilitate multiple large-scale school-based data collections and uses in-class whole-school sampling data collection methods consistent with previous research [2-5]. COMPASS also facilitates knowledge transfer and exchange by annually providing each participating school with a school-specific feedback report that highlights the school-specific prevalence for each outcome, comparisons to provincial and national norms or guidelines, and provides evidence-based suggestions for school-based interventions (programs and/or policies) designed to address the outcomes covered in the feedback report (refer to: www.compass.uwaterloo.ca).

The student-level data in the COMPASS study are collected using the COMPASS Questionnaire (Cq) (refer to Appendix A). The Cq is a 12-page machine-readable paper booklet that is completed by participating students in the classroom setting. Survey items were specifically chosen to reflect both science-based (e.g., obesity) and practice-based (e.g., bullying) concerns. Because the Cq collects data from large whole-school samples during class time, it was purposefully made short (12-pages allows it to be completed in one 30-40 minute class period), and inexpensive (machine-readable forms). This technical report provides details on the development and selection of the measures used in the Cq.

Methods

Identifying Content Areas for the Questionnaire

In order to address the primary research objectives for COMPASS (as outlined in the Canadian Institutes of Health Research [CIHR] funding proposal), the Cq needed to include items related to the primary study outcomes. This included both *Core Measures* (obesity, marijuana-use, physical activity, alcohol-use, smoking (tobacco-use), and sedentary behaviour), and *Demographic Measures* (gender, age, ethnicity, and income). Based on the previous experience of research team members, we also wanted to ensure that the data collected in COMPASS were relevant to addressing some additional priority domains previously identified by school stakeholders that were not included as core measures in the CIHR funding proposal. The purpose of including some *Supplementary Measures* (eating behaviour, bullying, education outcomes, school connectedness, active commuting, and consumption of energy drinks), was to increase schools interest and engagement in the study, to add value to schools in terms of the breadth of data available, and to foster additional prevention actions within schools.

Primary Considerations for Selecting Measures for the Questionnaire

There were four primary considerations the COMPASS team used when determining which measures would be used in the Cq:

1. Since the Cq could only collect self-report data given the active-information passive-consent permission protocols, the COMPASS team wanted to use self-report core outcome measures that were considered reliable and valid for use in youth populations of this age range;
2. To minimize the burden on schools and students and ensure survey completion in one class period (~30-40 minutes - meaning no more than 12 pages in length), our team was challenged with having to select items that balanced both the depth of the data required for measuring each core outcome and the breadth of data that could be measured for each core outcome within this brief tool;
3. Given that COMPASS schools were purposefully sampled, the COMPASS team wanted the core measures in the Cq to be consistent with the measures used in other self-reported school-based surveys of youth in Ontario and Canada [e.g., the Ontario Student Drug Use and Health Survey (OSDUHS), the National Youth Smoking Survey (YSS), and the Health Behavior of School Children Survey (HBSC)] in order to make cross-study comparisons to existing population-based surveys; and,
4. As a means for helping school stakeholders and researchers to place COMPASS data and results into an appropriate context for action, the COMPASS team wanted the core outcome measures to provide data that would also be compatible with benchmarking against existing national (or international) public health guidelines or recommendations for youth populations (refer to Appendix B for a sample of the benchmarking).

Identifying Core Measures for the Questionnaire

Based on these four primary considerations, the COMPASS team identified the following core measures for obesity, marijuana-use, physical activity, alcohol-use, smoking (tobacco-use), and sedentary behaviour for use in the Cq.

Obesity (weight status)

The self-reported height and weight items in the Cq were designed to be consistent to those used in the Youth Risk Behavior Survey (YRBS) [6] and the YSS [7], although we adapted those measures to also provided respondents with both metric and imperial response options and a blank line prefaced by “My weight is ____ pounds/kilograms” and “My height is ____ inches/centimetres”. The data derived from the Cq height and weight measures provide the data necessary to allow researchers to calculate the Body Mass Index (BMI) for each participant using any of the various BMI classification systems that are available (e.g., the International Obesity Task Force BMI classification [8] or the World Health Organization Child Growth Standards [9]). The Cq items for height and weight used to derive BMI scores have demonstrated reliability and validity [10]. Two additionally relevant weight status measures in the Cq include an item pertaining to weight status perceptions that is consistent with previous research [11] and a new measure asking students if they were actively trying to change their weight status (i.e., lose weight, gain weight, stay the same weight).

Marijuana Use

The self-reported marijuana use items in the Cq (age of first use, frequency of use) are consistent to those used in the YSS [7]. The psychometrics properties of the marijuana use measures derived from the YSS are not available from Health Canada. The Cq also includes a new item asking students to report how difficult or easy they thought it would be to get marijuana if they wanted some. This question is derived from a similar tobacco-related question that has appeared in the YSS [7].

Physical Activity

We used a modified version of the previously validated brief physical activity measures used in the School Health Action Planning and Evaluation System (SHAPES) [12-13]. Since the SHAPES physical activity measures did not measure vigorous physical activity (VPA) or moderate to vigorous physical activity (MVPA) accurately [12], the Cq measure was reworded to provide respondents with definitions and examples of 'hard' and 'moderate' PA (e.g., instructions not to include time in hard physical activity when calculating moderate physical activity (MPA)). Testing identified that the new Cq measures for physical activity produce reliable and valid VPA, MPA and MVPA estimates [14]. The Cq measures also provide the data required to determine if students are meeting the Canadian physical activity guidelines as defined by the Canadian Society for Exercise Physiology (CSEP) [15]. Additional measures in the Cq relevant to physical activity include physical activity of friends, participation in physical education classes, participation in varsity sports at schools, participation in intramurals or sports clubs at school, participation in competitive sports outside of school, active commuting, and strength training.

Alcohol Use

The self-reported alcohol use items in the Cq (age of first use, frequency of use, binge drinking), are consistent to those used in the YSS [7]. The psychometrics properties of the alcohol use measures derived from the YSS are not available from Health Canada. The Cq also includes a new item asking students to report consumption of alcohol mixed with an energy drinks.

Smoking (Tobacco Use)

The self-reported tobacco use items in the Cq (smoking susceptibility, age of first use, smoking status), are consistent to those used in the YSS [7]. Validity testing has identified that the self-reported measures used in the YSS produce accurate estimates of cigarette smoking among Canadian youth [16]. Additional measures in the Cq relevant to tobacco use include smoking susceptibility, peer smoking, age of onset, cigarettes per day, quit attempts, and use of alternative tobacco products (hookah, e-cigarettes, smokeless tobacco, roll-your-own cigarettes, cigars, cigarillos, blunt wraps, tobacco blended with marijuana, and pipe tobacco) and nicotine replacement therapy (NRT).

Sedentary Behaviour

To assess sedentary behaviour, COMPASS made use of a modified version of the sedentary behaviour measures previously used in SHAPES [17-18]; the SHAPES sedentary behaviour measures have never been validated and the Cq measure adapted the wording to include examples of how to complete the question, new categories of sedentary behaviour (e.g., streaming TV shows or movies), and new response categories that allow students to respond in 15 minute increments. Testing identified that the new Cq measures for sedentary behaviour produce reliable and valid average total sedentary behaviour (ATSB) estimates [14]. The Cq measures also provide the data required to determine if students are meeting the Canadian sedentary behaviour guidelines as defined by the Canadian Society for Exercise Physiology (CSEP) [19]. Additional measures in the Cq relevant to sedentary behaviour include time spent sleeping.

Identifying Supplementary Measures for the Questionnaire

Using the same four primary considerations, and an additional consideration of making sure that participating schools would be interested and engaged in the study by collecting some practice-based data, the COMPASS team identified the following supplementary measures for eating behaviour, bullying, academic achievement, school connectedness, active commuting, and consumption of energy drinks for use in the Cq.

Eating Behaviour

While there are existing tools for measuring diet within youth population based on 7-day food recall or food diaries, these types of long, intensive and time consuming measures were not appropriate for use within the COMPASS protocol. Moreover, we wanted to be able to provide schools with meaningful and actionable data associated with the national benchmark for eating habits, namely the *Canada's Food Guide* [20]. Considering no existing measures were available for youth populations pertaining to measuring eating behaviour specific to Canada's Food Guide, we worked in partnership with Health Canada¹ to develop a simple self-reported measure for use in COMPASS. Testing identified that the new Cq measures of eating behaviour specific to the four components of Canada's Food Guide (*vegetables and fruit, grain products, milk and alternatives, meat and alternatives*) produce reliable and valid estimates [10]. Additional measures in the Cq relevant to eating behaviour include eating breakfast, eating in a school food program, buying lunch at restaurants and/or cafeteria, using vending machines at school, snacking at school, consumption of sugar sweetened beverages, consumption of energy drinks, and coffee consumption.

Bullying

A key supplementary measure of interest to schools was bullying. As such, to assess bullying, COMPASS made use of a modified version of the bullying measures previously used in the Ontario Student Drug Use and Health Survey (OSDUHS) [21]; the OSDUHS bullying behaviour measures did not differentiate the types of bullying students experience or perpetrate so the Cq measures adapted the questions to include being a victim of or perpetrator of physical bullying, verbal bullying, and cyber bullying.

Education Outcomes

Given the importance of academic performance for youth's future opportunities, and the dearth of studies of examining these relationships among Canadian youth, it is deemed critical to include measures of academic performance. The Cq measures of educational performance include questions about academic performance (overall marks, most recent Math and English courses taken, and marks in the Math and English courses); academic engagement (tardiness or absence, attending class without completed homework), educational aspirations (the level of schooling they hope to complete), and educational expectations (the level of schooling they expect to complete).

School connectedness

School connectedness is the belief held by students that adults and peers in their school care about their learning as well as about them as individuals. The self-reported school connectedness items in the Cq, are consistent to those used in the YSS [7].

Identifying Demographic Measures for the Questionnaire

In order to make cross-study comparisons to other relevant research in this domain, the COMPASS team wanted the demographic measures in the Cq (gender, age, grade, ethnicity, weekly spending money) to be consistent with the measures used in other self-reported school-based studies of secondary school aged youth in Ontario (and Canada).

¹ As the COMPASS team wanted the questions and images in the Cq to match as closely as possible to the actual wording and images of the Canada's Food Guide, it was decided that it would be best to use word-for-word the definitions of serving sizes and food types for each food group and include the exact images that appear in the Canada's Food Guide. For this, permission was sought from Health Canada. Permission was granted for the use of the wording and the images with the appropriate acknowledgement.

Discussion

The goal for the COMPASS team developing the student questionnaire was to ensure that it included questions that a) were comparable to other youth health studies for consistency and reporting purposes; b) would produce results that could be directly compared to national benchmarks; c) could answer a wide variety of research questions; and d) would engage schools and other stakeholders to encourage action. We believe that the Cq provides robust and valid self-reported data designed to provide school stakeholders with local and timely knowledge and understanding of how to best intervene with their student population and create valuable linkages between schools and the local research and practice community, fostering future research and prevention collaborations.

References

1. Leatherdale ST, et al: *The COMPASS study: a longitudinal hierarchical research platform for evaluating natural experiments related to changes in school-level programs, policies and built environment resources*. BMC Public Health. 2014, 14:331. doi:10.1186/1471-2458-14-331
2. Leatherdale ST, Burkhalter R: *The substance use profile of Canadian youth: exploring the prevalence of alcohol, drug and tobacco use by gender and grade*. Addict Behav 2012, 37:318-322.
3. Leatherdale ST, Manske S, Faulkner G, Arbour K, Bredin C: *A multi-level examination of school programs, policies and resources associated with physical activity among elementary school youth in the PLAY-ON study*. Int J Behav Nutr Phys Act 2010, 25;6. doi: 10.1186/1479-5868-7-6.
4. Leatherdale ST, McDonald PW, Cameron R, Brown KS: *A multi-level analysis examining the relationship between social influences for smoking and smoking onset*. Am J Health Behav 2005, 29:520-530.
5. Leatherdale ST, Papadakis S: *A multi-level examination of the association between older social models in the school environment and overweight and obesity among younger students*. J Youth Adolesc 2011, 40:361-372.
6. Brener N, Mcmanus T, Galuska D, Lowry R, Wechsler H: *Reliability and validity of self-reported height and weight among high school students*. J Adolescent Health 2003, 32:281-287.
7. Elton-Marshall T, Leatherdale ST, Manske SR, Wong K, Ahmed R, Burkhalter R: *Research Methods of the Youth Smoking Survey (YSS)*. Chronic Dis Inj Can 2011, 32:47-54.
8. Cole, TJ, Bellizzi, MC, Flegal, KM, Dietz, WH: *Establishing a standard definition for child overweight and obesity worldwide: International survey*. BMJ 2000, 320(7244):1240-1243.
9. WHO Multicentre Growth Reference Study Group. *WHO Child Growth Standards: Length/height-for-age, weight-for-age, weight-for-length, weight-for-height and body mass index-for-age: Methods and development*. Geneva: World Health Organization, 2006.
10. Leatherdale ST, Laxer RE: *Reliability and validity of the weight status and dietary intake measures in the COMPASS questionnaire: are the self-reported measures of body mass index (BMI) and Canada's Food Guide servings robust?* Int J Behav Nutr Phys Act 2013, 10:42. doi: 10.1186/1479-5868-10-42.
11. Leatherdale ST, Wong S, Manske S, Colditz GA: *Susceptibility to smoking and its association with physical activity, BMI and weight concerns among non-smoking youth*. Nic Tob Res 2008, 10, 499-505.
12. Wong S, Leatherdale ST, Manske S: *Reliability and validity of a school-based physical activity questionnaire*. Med Sci Sports Exer 2006, 38:1593-1600.
13. Leatherdale ST, Manske S, Wong S, Cameron R: *Integrating research, policy and practice in school-based physical activity prevention programming: The School Health Action, Planning and Evaluation System (SHAPES) Physical Activity Module*. Health Promotion Practice 2009, 10:254-261.
14. Leatherdale ST, Laxer RE, Faulkner G: *Reliability and validity of the physical activity and sedentary behaviour measures in the COMPASS study*. COMPASS Technical Report Series. 2014, 2(1). Waterloo, Ontario: University of Waterloo. Available at: www.compass.uwaterloo.ca
15. Canadian Society for Exercise Physiology: *Canadian Physical Activity Guidelines for Youth – 12 to 17 years*, 2011. <http://www.csep.ca/CMFiles/Guidelines/CSEP-InfoSheets-youth-ENG.pdf> [Accessed September 21, 2011].
16. Wong S, Shields M, Leatherdale ST, Malaisson E, Hammond D: *Assessment of the validity of self-reported smoking status among Canadians*. Health Rep 2012, 23:47-53.

17. Leatherdale ST, Ahmed R: *Screen-based sedentary behaviours among a nationally representative sample of youth: are Canadian kids couch potatoes?* *Chronic Dis Inj Can* 2011, 31:141-146.
18. Wong SL, Leatherdale ST: *Association between sedentary behavior, physical activity, and obesity: inactivity among active kids.* *Prev Chronic Dis* 2009 6:1.
19. Canadian Society for Exercise Physiology: *Canadian Sedentary Behaviour Guidelines for Youth – 12 to 17 years*, 2011. <http://www.csep.ca/CMFiles/Guidelines/CSEP-InfoSheets-ENG-Teen%20FINAL.pdf> [Accessed September 21, 2011].
20. Health Canada: *Eating Well with Canada's Food Guide*. Minister of Health; 2011. http://www.hc-sc.gc.ca/fn-an/alt_formats/hpfb-dgpsa/pdf/food-guide-aliment/print_eatwell_bienmang-eng.pdf [Accessed June 9, 2012]
21. Centre for Addiction and Mental Health (CAMH): *Ontario Student Drug Use and Health Survey (OSDUHS)*. http://www.camh.ca/en/research/news_and_publications/ontario-student-drug-use-and-health-survey/Documents/2013%20OSDUHS%20Docs/FormA-SS_2013OSDUHS_Final.pdf [accessed April 02, 2012].

Appendix A
The COMPASS Questionnaire

About You

1. What grade are you in?

- Grade 9
- Grade 10
- Grade 11
- Grade 12

2. How old are you today?

- 13 years or younger
- 14 years
- 15 years
- 16 years
- 17 years
- 18 years or older

3. Are you female or male?

- Female
- Male

4. How would you describe yourself? (Mark all that apply)

- White
- Black
- Asian
- Aboriginal (First Nations, Métis, Inuit)
- Latin American/Hispanic
- Other _____

5. About how much money do you usually get each week to spend on yourself or to save?

(Remember to include all money from allowances and jobs like baby-sitting, delivering papers, etc.)

- Zero
- \$1 to \$5
- \$6 to \$10
- \$11 to \$20
- \$21 to \$40
- \$41 to \$100
- More than \$100
- I do not know how much money I get each week

6. How do you usually travel to and from school?

To school

- By car (as a passenger)
- By car (as a driver)
- By school bus
- By public bus
- By walking
- By bicycling
- By subway or streetcar
- Other _____

From school

- By car (as a passenger)
- By car (as a driver)
- By school bus
- By public bus
- By walking
- By bicycling
- By subway or streetcar
- Other _____

Physical Activity

HARD physical activities include jogging, team sports, fast dancing, jump-rope and any other physical activities that increase your heart rate and make you breathe hard and sweat.

MODERATE physical activities include lower intensity activities such as walking, biking to school, and recreational swimming.

10. Mark how many minutes of **HARD** physical activity you did on each of the last 7 days. This includes physical activity during physical education class, lunch, after school, evenings, and spare time.

	Hours					Minutes			
Monday	0	1	2	3	4	0	15	30	45
Tuesday	0	1	2	3	4	0	15	30	45
Wednesday	0	1	2	3	4	0	15	30	45
Thursday	0	1	2	3	4	0	15	30	45
Friday	0	1	2	3	4	0	15	30	45
Saturday	0	1	2	3	4	0	15	30	45
Sunday	0	1	2	3	4	0	15	30	45

For example: If you did 45 minutes of hard physical activity on Monday, you will need to fill in the 0 hour circle and the 45 minute circle, as shown below:

	Hours					Minutes			
Monday	●	1	2	3	4	0	15	30	●

11. Mark how many minutes of **MODERATE** physical activity you did on each of the last 7 days. This includes physical activity during physical education class, lunch, after school, evenings, and spare time. Do not include time spent doing hard physical activities.

	Hours					Minutes			
Monday	0	1	2	3	4	0	15	30	45
Tuesday	0	1	2	3	4	0	15	30	45
Wednesday	0	1	2	3	4	0	15	30	45
Thursday	0	1	2	3	4	0	15	30	45
Friday	0	1	2	3	4	0	15	30	45
Saturday	0	1	2	3	4	0	15	30	45
Sunday	0	1	2	3	4	0	15	30	45

For example: If you did 1 hour and 30 minutes of moderate physical activity on Monday, you will need to fill in the 1 hour circle and the 30 minute circle, as shown below:

	Hours					Minutes			
Monday	0	●	2	3	4	0	15	●	45

12. Were the last 7 days a typical week in terms of the amount of physical activity that you usually do?

- Yes
- No, I was *more* active in the last 7 days
- No, I was *less* active in the last 7 days

13. Your closest friends are the friends you like to spend the most time with. How many of your closest friends are physically active?

- None
- 1 friend
- 2 friends
- 3 friends
- 4 friends
- 5 or more friends

14. Are you taking a physical education class at school this year?

- Yes**, I am taking one **this term**
- Yes**, I will be taking one or have taken one this school year, **but not this term**.
- No**, I am not taking a physical education class at school this year

Healthy Eating

23. If you do not eat breakfast every day, why do you skip breakfast? (Mark all that apply)

- I eat breakfast every day
- I don't have time for breakfast
- The bus comes too early
- I sleep in
- I'm not hungry in the morning
- I feel sick when I eat breakfast
- I'm trying to lose weight
- There is nothing to eat at home
- Other _____

24. In a *usual* school week (Monday to Friday), on how many days do you do the following?

	None	1 day	2 days	3 days	4 days	5 days
a) Eat breakfast	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Eat breakfast provided to you as part of a school program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Eat lunch at school - lunch packed and brought <u>from home</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) Eat lunch at school - lunch <u>purchased in the cafeteria</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) Eat lunch purchased at a fast food place or restaurant	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) Eat snacks purchased from a vending machine in your school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) Eat snacks purchased from a vending machine, corner store, snack bar, or canteen off school property	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h) Drink sugar-sweetened beverages (soda pop, Kool-Aid, Gatorade, etc.) <u>Do not include diet/sugar-free drinks</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i) Drink high-energy drinks (Red Bull, Monster, Rock Star, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j) Drink coffee or tea with sugar (include cappuccino, frappuccino, iced-tea, iced-coffees, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
k) Drink coffee or tea without sugar	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

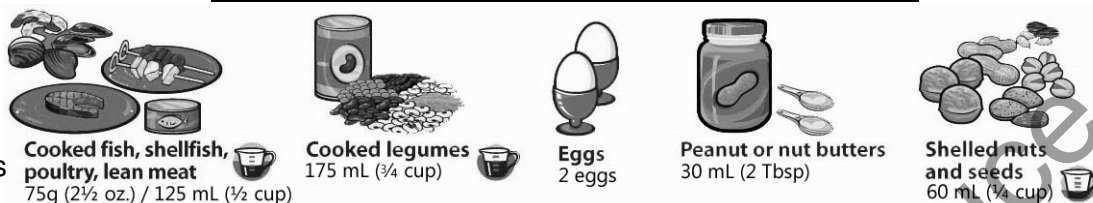
25. On a *usual* weekend (Saturday and Sunday), on how many days do you do the following?

	None	1 day	2 days
a) Eat breakfast	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Eat lunch	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Eat foods purchased at a fast food place or restaurant	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) Eat snacks purchased from a vending machine, corner store, snack bar, or canteen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) Drink sugar-sweetened beverages (soda pop, Kool-Aid, Gatorade, etc.) <u>Do not include diet/sugar-free drinks</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) Drink high energy drinks (Red Bull, Monster, Rock Star, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) Drink coffee or tea with sugar (include cappuccino, frappuccino, iced-tea, iced-coffees, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h) Drink coffee or tea without sugar	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

26. YESTERDAY, from the time you woke up until the time you went to bed, how many servings of meats and alternatives did you have? One 'Food Guide' serving of meat and alternatives includes cooked fish, chicken, beef, pork, or game meat, eggs, nuts or seeds, peanut butter or nut butters, legumes (beans), and tofu.

- None
- 1 serving
- 2 servings
- 3 servings
- 4 servings
- 5 or more servings

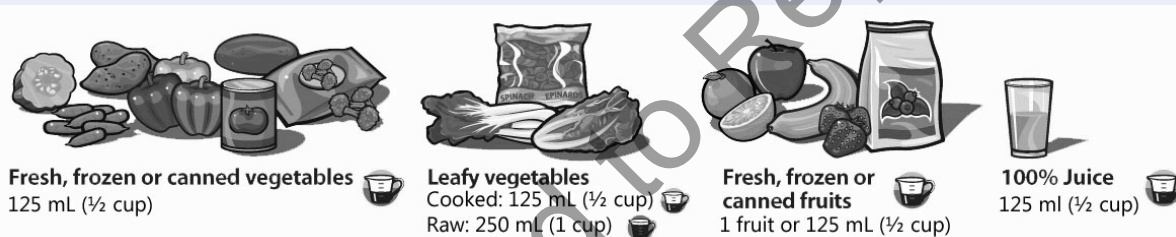
Canada's Food Guide Serving Sizes of Meats and Alternatives



27. YESTERDAY, from the time you woke up until the time you went to bed, how many servings of vegetables and fruits did you have? One 'Food Guide' serving of vegetables and fruit includes pieces of fresh vegetable or fruit, salad or raw leafy greens, cooked leafy green vegetables, dried or canned or frozen fruit, and 100% fruit or vegetable juice.

- None
- 1 serving
- 2 servings
- 3 servings
- 4 servings
- 5 servings
- 6 servings
- 7 servings
- 8 servings
- 9 or more servings

Canada's Food Guide Serving Sizes of Vegetables and Fruits



28. YESTERDAY, from the time you woke up until the time you went to bed, how many servings of milk and alternatives did you have? One 'Food Guide' serving of milk or milk alternatives includes milk, fortified soy beverage, reconstituted powdered milk, canned (evaporated) milk, yogurt or kefir (another type of cultured milk product), and cheese.

- None
- 1 serving
- 2 servings
- 3 servings
- 4 servings
- 5 servings
- 6 or more servings

Canada's Food Guide Serving Sizes of Milk and Alternatives



29. YESTERDAY, from the time you woke up until the time you went to bed, how many servings of grain products did you have? One 'Food Guide' serving of grain products includes bread, bagels, flatbread such as tortilla, pita, cooked rice or pasta, and cold cereal.

- None
- 1 serving
- 2 servings
- 3 servings
- 4 servings
- 5 servings
- 6 servings
- 7 servings
- 8 servings
- 9 or more servings

Canada's Food Guide Serving Sizes of Grain Products



Your Experience with Smoking

30. Have you ever tried cigarette smoking, even just a few puffs?

- Yes
- No

31. How old were you when you first tried smoking cigarettes, even just a few puffs?

- I have never done this
- I do not know

<input type="radio"/> 8 years or younger	<input type="radio"/> 14 years
<input type="radio"/> 9 years	<input type="radio"/> 15 years
<input type="radio"/> 10 years	<input type="radio"/> 16 years
<input type="radio"/> 11 years	<input type="radio"/> 17 years
<input type="radio"/> 12 years	<input type="radio"/> 18 years or older
<input type="radio"/> 13 years	

32. Do you think in the future you might try smoking cigarettes?

- Definitely yes
- Probably yes
- Probably not
- Definitely not

33. If one of your best friends was to offer you a cigarette, would you smoke it?

- Definitely yes
- Probably yes
- Probably not
- Definitely not

34. At any time during the next year do you think you will smoke a cigarette?

- Definitely yes
- Probably yes
- Probably not
- Definitely not

35. Do you think it would be difficult or easy for you to get cigarettes if you wanted to smoke?

- Difficult
- Easy
- I do not know

36. Have you ever smoked a whole cigarette?

- Yes
- No

37. Have you ever smoked 100 or more whole cigarettes in your life?

- Yes
- No



[serial]

38. Have you ever smoked every day for at least 7 days in a row?

- Yes
- No

39. On how many of the last 30 days did you smoke one or more cigarettes?

- None
- 1 day
- 2 to 3 days
- 4 to 5 days
- 6 to 10 days
- 11 to 20 days
- 21 to 29 days
- 30 days (*every day*)

40. Thinking back over the last 30 days, on the days that you smoked, how many cigarettes did you usually smoke each day?

- None
- A few puffs to one whole cigarette
- 2 to 3 cigarettes
- 4 to 5 cigarettes
- 6 to 10 cigarettes
- 11 to 20 cigarettes
- 21 to 29 cigarettes
- 30 or more cigarettes

41. Your closest friends are the friends you like to spend the most time with. How many of your closest friends smoke cigarettes?

- None
- 1 friend
- 2 friends
- 3 friends
- 4 friends
- 5 or more friends

42. Have you ever tried to quit smoking cigarettes?

- I have never smoked
- I have only smoked a few times
- I have never tried to quit
- I have tried to quit once
- I have tried to quit 2 or 3 times
- I have tried to quit 4 or 5 times
- I have tried to quit 6 or more times

43. In the last 30 days, did you use any of the following? (*Mark all that apply*)

- Pipe tobacco
- Cigarillos or little cigars (*plain or flavoured*)
- Cigars (not including cigarillos or little cigars, *plain or flavoured*)
- Roll-your-own cigarettes (tobacco only)
- Loose tobacco mixed with marijuana
- Bidis (little flavoured cigarettes that are hand-rolled in leaves and tied at the ends with string)
- Smokeless tobacco (chewing tobacco, pinch, snuff, or snus)
- Nicotine patches, nicotine gum, nicotine lozenges, or nicotine inhalers
- Hookah (water-pipe) to smoke tobacco
- Hookah (water-pipe) to smoke herbal sheesha/shisha
- Blunt wraps (a sheet or tube made of tobacco used to roll cigarette tobacco)
- I have not used any of these things in the last 30 days

Alcohol and Marijuana Use

Please remember that we will keep your answers **completely confidential**.

A **DRINK** means: 1 regular sized bottle, can, or draft of beer; 1 glass of wine; 1 bottle of cooler; 1 shot of liquor (rum, whiskey, etc); or 1 mixed drink (1 shot of liquor with pop, juice, energy drink).

44. In the last 12 months, how often did you have a drink of alcohol that was more than just a sip?

- I have never drunk alcohol
- I did not drink alcohol in the last 12 months
- I have only had a sip of alcohol

- Less than once a month
- Once a month
- 2 or 3 times a month
- Once a week
- 2 or 3 times a week
- 4 to 6 times a week
- Every day

45. How old were you when you first had a drink of alcohol that was more than just a sip?

- I have never drunk alcohol
- I have only had a sip of alcohol
- I do not know

- 8 years or younger
- 9 years
- 10 years
- 11 years
- 12 years
- 13 years
- 14 years

- 15 years
- 16 years
- 17 years
- 18 years or older



46. In the last 12 months, how often did you have 5 drinks of alcohol or more on one occasion?

- I have never done this
- I did not have 5 or more drinks on one occasion in the last 12 months
- Less than once a month
- Once a month
- 2 to 3 times a month
- Once a week
- 2 to 5 times a week
- Daily or almost daily

47. In the last 12 months, have you had alcohol mixed or pre-mixed with an energy drink such as Red Bull, Rock Star, Monster, or another brand?

- I have never done this
- I did not do this in the last 12 months
- Yes
- I do not know

48. In the last 12 months, how often did you use marijuana or cannabis? (a joint, pot, weed, hash)

- I have never used marijuana
- I have used marijuana but not in the last 12 months
- Less than once a month
- Once a month
- 2 or 3 times a month
- Once a week
- 2 or 3 times a week
- 4 to 6 times a week
- Every day

49. How old were you when you first used marijuana or cannabis?

- I have never used marijuana
- I do not know

- 8 years or younger
- 9 years
- 10 years
- 11 years
- 12 years
- 13 years

- 14 years
- 15 years
- 16 years
- 17 years
- 18 years or older



50. Do you think it would be difficult or easy for you to get marijuana if you wanted some?

- Difficult
- Easy
- I do not know



[serial]

Your School and You

51. How strongly do you agree or disagree with each of the following?

	Strongly Agree	Agree	Disagree	Strongly Disagree
a) I feel close to people at my school.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) I feel I am part of my school.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) I am happy to be at my school.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) I feel the teachers at my school treat me fairly.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) I feel safe in my school.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) Getting good grades is important to me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

52. In the last 30 days, in what ways were you bullied by other students? (Mark all that apply)

- I have not been bullied in the last 30 days
- Physical attacks (e.g., getting beaten up, pushed, or kicked)
- Verbal attacks (e.g., getting teased, threatened, or having rumours spread about you)
- Cyber-attacks (e.g., being sent mean text messages or having rumours spread about you on the internet)
- Had someone steal from you or damage your things

53. In the last 30 days, how often have you been bullied by other students?

- I have not been bullied by other students in the last 30 days
- Less than once a week
- About once a week
- 2 or 3 times a week
- Daily or almost daily

54. In the last 30 days, in what ways did you bully other students? (Mark all that apply)

- I did not bully other students in the last 30 days
- Physical attacks (e.g., beat up, pushed, or kicked them)
- Verbal attacks (e.g., teased, threatened, or spread rumours about them)
- Cyber-attacks (e.g., sent mean text messages or spread rumours about them on the internet)
- Stole from them or damaged their things

55. In the last 30 days, how often have you taken part in bullying other students?

- I did not bully other students in the last 30 days
- Less than once a week
- About once a week
- 2 or 3 times a week
- Daily or almost daily

56. How supportive is your school of the following?

	Very supportive	Supportive	Unsupportive	Very unsupportive
a) Making sure there are opportunities for students to be physically active	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Making sure students have access to healthy foods and drinks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Making sure no one is bullied at school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) Giving students the support they need to resist or quit tobacco	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) Giving students the support they need to resist or quit drugs and/or alcohol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

57. What academic level was your current or most recent Math course?

- Applied
- Academic
- Other _____

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