Healthy Teeth Healthy Smiles Oranga Niho Oranga Kata

Primary School Teaching Guide













Aligned to Level Two – Health and Physical Education, New Zealand Curriculum, Ministry of Education 2007.
Version 2- 2019 Available online at www.beehealthy.org.nz under "Resources" This resource may be copied for educational and non-profit purposes.
Published by: Early Intervention and Prevention Team, 2019 Bee Healthy Regional Dental Service Private Bag 31 907, Lower Hutt Wellington
For further information or support, contact the Early Intervention and Prevention Team: 0800 TALK TEETH (825 583)

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Bee Healthy Regional Dental Service

Bee Healthy Regional Dental Service is the community-based dental service for the greater Wellington Region (Wellington, Hutt Valley, Porirua and Kapiti Coast). Formally known as the school dental service, Bee Healthy provides free (publically-funded) dental care for children from birth until their 18th birthday.

Children born in the Wellington Region are enrolled at birth with Bee Healthy. Children can be enrolled at any age, but the earlier the better to make the most of the free service, and prevent tooth decay. Enrolment can be completed online at www.beehealthy.org.nz.

Bee Healthy Mobile Vans visit primary schools throughout the Wellington Region so children can have their annual examination onsite, at school. In cases where further treatment is required, follow-up appointments are made at the nearest Bee Healthy Dental Clinic.

College aged children receive dental care from a dentist in the community who will continue to provide free dental care (excluding orthodontic treatment) until the child's 18th birthday.

For further information, visit www.beehealthy.org.nz or call 0800 TALK TEETH (0800 825 583).

About this Teaching Guide

Through their primary school ages, children are developing more responsibility for themselves. By incorporating oral health into the current curriculum, children can be educated to make healthier choices to protect their teeth and prevent tooth decay, and improve their overall health and wellbeing.

This teaching guide aims to:

- Increase children's knowledge about the importance of their teeth.
- Increase children's awareness of self-care to keep their teeth healthy to last a lifetime.
- Reinforce key messages for oral health and general health and wellbeing.

While the Teaching Guide has been developed to align with Level 2, Health and Physical Education of The New Zealand Curriculum, oral health is not a stand-alone topic and may be incorporated into the other strands of the Curriculum.

Alignment with the New Zealand Curriculum – Level 2

Health and Phy	sical Education	Learning Objectives
Personal	A1 Personal Growth and Development Describe their stages of growth and their development needs and demonstrate increasing responsibility for self-care.	 Children will be able to: Identify the basic structure of teeth. Identify the importance of teeth. Identify the function of different types of teeth. Identify the stages of tooth eruption. Identify the number of primary and secondary teeth. Investigate and gain an understanding of the key oral health self-management strategies.
Health and Physical Development	A3 Safety Management Identify risk and use safe practices in a range of contexts.	 Children will be able to: Identify the factors which increase the risk of tooth decay. Explain the role of bacteria in tooth decay. Describe the process of tooth decay. Identify strategies to prevent and manage poor oral health
	A4 Personal Identity Identify personal qualities that contribute to a sense of self-worth.	 Children will be able to: Identify how oral health may affect all aspects of health and wellbeing/haoura, and identify key strategies to manage those risks.
Healthy	D2 Community Resources Identify and use local community resources and explain how these contribute to a healthy community.	 Children will be able to: Identify where to go for dental care/treatment. Explain why visiting the dentist is important for health and wellbeing/haoura. Identify that oral health care is free for all children until the age of 18 years.
Communities and Environments	D3 Rights, Responsibilities and Laws; D4 People and the Environment Contribute to and use simple guidelines and practices that promote physically and socially healthy classrooms, schools and local environments.	Children will be able to: - Develop strategies to promote and support good oral health within the classroom and school setting.



Brush teeth for two minutes, twice a day with fluoride toothpaste

- Brush teeth for two minutes, in the morning after breakfast and especially at night before bed.
- Use a soft bristled toothbrush with a pea-sized amount of adult (full strength) fluoride toothpaste.
- Replace toothbrush every 3 months, or when the bristles begin to wear. A worn toothbrush can cause damage to gums.
- Children require assistance brushing their teeth until they have developed full wrist movement and flexibility, which is around 7 years old.
- Do not share toothbrushes between family members as this also shares decay-causing bacteria.



Spit, don't rinse after brushing

- Fluoride is important for remineralisation to strengthen tooth enamel.
- Spit, don't rinse after brushing teeth especially at night, so the fluoride can keep working to protect teeth while sleeping.
- Fluoride toothpaste should be the last thing on teeth before going to bed, so avoid eating or drinking after brushing teeth at night.



Drink tap water and milk

- Drink tap water or milk. Tap water is free, sugar-free and most water supplies within the Wellington Region are fluoridated to support good oral health.
- Drink tap water when playing sport. Children do not need sports drinks or flavoured waters. These are designed to support the energy requirements of high performance athletes.



Eat snacks with no added sugar

- Choose sugar free foods.
- Avoid adding sugar when preparing food.
- Limit sugary foods (such as dried fruits, cereal and muesli bars, and sweetened yoghurts). If provided, these should be eaten only at main mealtimes.
- Fresh fruits are fine for snack time. Natural sugars are not as harmful to teeth as table sugar or added sugar.



FREE dental care for under 18's

- Dental care is FREE from birth until a child's 18th birthday.
- For questions or concerns about a child's oral health call 0800 TALK TEETH (0800 825 583).

About teeth

Curriculum strand: 2A1 Personal Growth and Development

2A4 Personal Identity

Key learning objective: - Identify the importance of teeth

- Identify the basic structure of teeth

- Identify the function of different types of teeth

Why do we have teeth?

Jaw shape Baby teeth are important for jaw shape and holding space for adult teeth to come through.

Eating Teeth are important for biting and chewing food into smaller pieces to eat.

Talking Teeth are important for making different sounds and words when we speak.

Smiling Healthy teeth = healthy smiles.

How many teeth do we have?

Humans have 20 baby (primary/deciduous) teeth and 32 adult (secondary/permanent) teeth Each tooth has a different shape for their different functions.

What are the different types of teeth humans have?

Incisor, canine, premolar (secondary teeth only), molar

Why do we have different types of teeth?



Incisor

Humans have 8 incisors.

They are chisel shaped and are used for biting and cutting food.



Canine

Humans have 4 canines.

They are pointed and sharp and are used for tearing and biting into food.



Premolar

Humans have 8 premolars.

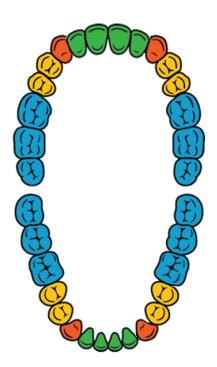
They are flat with 2 cusps and are used for tearing and grinding food.



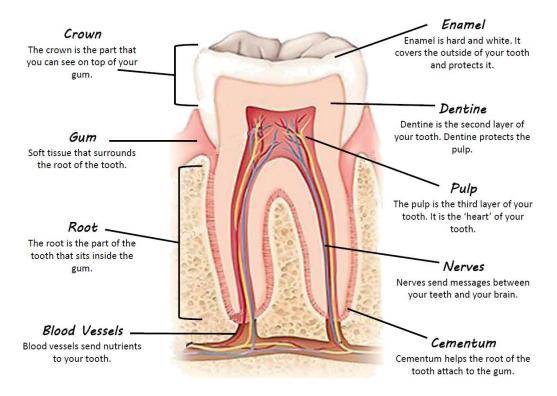
Molar

Humans have 12 molars. Some people only have 8 if they have had their wisdom teeth taken out by the dentist.

They are flat with 4 cusps and are used for chewing and grinding food.

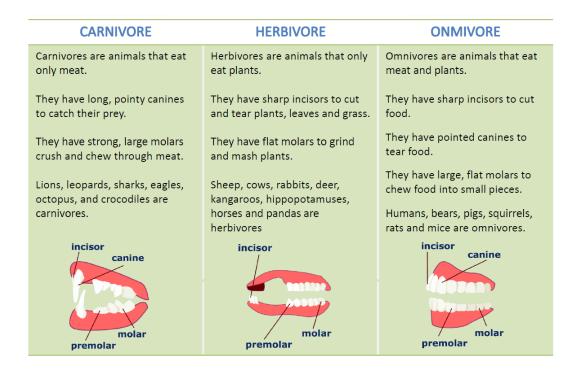


What are the different parts of a tooth called?



Humans and animals have different types of teeth because they have different diets, and eat different types of food.

What sort of teeth do different animals have?



Tooth Decay

Curriculum strand: 2A3 Safety Management

2A4 Personal Identity

Key learning objective: - Describe the process of tooth decay

- Understand the role of bacteria in the tooth decay process

- Identify the factors that lead to tooth decay

- Identify the impacts of behaviours that do not support good oral health

How does tooth decay happen?

Our mouths are filled with a mixture of good and bad bacteria (germs). Germs like to hide in the deep pits on the top of our teeth, in the gaps between teeth, and along our gum lines.

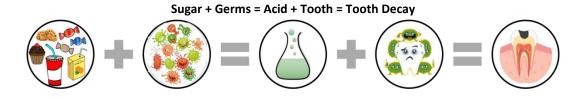
Tooth decay happens if we don't keep our teeth clean, and if we eat lots of sugary foods and drinks. The sugar from the food and drink we eat is also food for the bad germs in our mouth. The germs turn the sugary bits into acid and then attack tooth enamel (the outside layer of our teeth). If our teeth keep getting attacked by the germ's acid, our teeth become more and more damaged, and we can get holes (cavities) in our teeth.

Just like it is important to wash our hands to keep them clean, it is important to keep our mouths clean. We can do this by brushing our teeth for two minutes, twice a day (after breakfast, and especially before going to bed each night). This cleans away the leftover bits of food and bad germs in our mouth so they can't damage our teeth while we sleep.

What does tooth decay look like?

Discuss the images included in this teaching guide

How does sugar affect our teeth and oral health?



Rethink Your Drink

Create a Sugary Drinks Kit using the flashcards provided. Fill plastic bags with different amounts of sugar in each drink.

Eggs-periment

Put a hard boiled egg in a glass of fizzy drink for the day. Look at how the shell changes colour. Use a soft toothbrush with a smear of tooth paste to gently clean the egg.

Burnt Sugar

Empty a bottle of fizzy drink into a pot. Heat on a stove and bring to a boil to let the liquid burn off. Observe the sticky substance that is left (sugar content of the fizzy drink).

Keeping Teeth Healthy

Curriculum strand: 2A1 Personal Growth and Development

2A3 Safety Management 2D2 Community Resources

2D3 Rights, Responsibilities and Laws 2D4 People and the Environment

Key learning objectives: - Identify and understand key strategies to prevent tooth decay

- Identify and make healthy food choice for oral health and wellbeing

- Identify resources available in the community that support oral health

- Develop strategies to support oral health within the classroom and school settings

5 Tips to keep you smiling:

- Brush teeth with fluoride toothpaste for two minutes, twice a day
- Spit, don't rinse after brushing
- Drink tap water and milk
- Eat snacks with no added sugar
- FREE dental care for under 18s

See "Key Messages for 5-12 Year Olds". Discuss these with students, for example:

Why do we brush our teeth?

What happens if we don't brush our teeth? What do our teeth feel like?

Why is it important not to rinse after brushing teeth?

Should you visit the dentist regularly or only when there is a problem? Why?

What is it like going to the dentist? Discuss experiences at the dentist

What types of food/drink can keep our teeth strong and healthy?

What types of food/drink weaken our teeth and can lead to tooth decay?

BarnaBee and the Miniature Mouth Monster Mission

Watch the interactive DVD.

In groups or individually, develop a Plan of Attack to prevent tooth decay.

Visit www.beehealthy.org.nz for a range of interactive games.

Functions of teeth

Use the words in the box to fill in the blanks to label and describe the types of teeth.

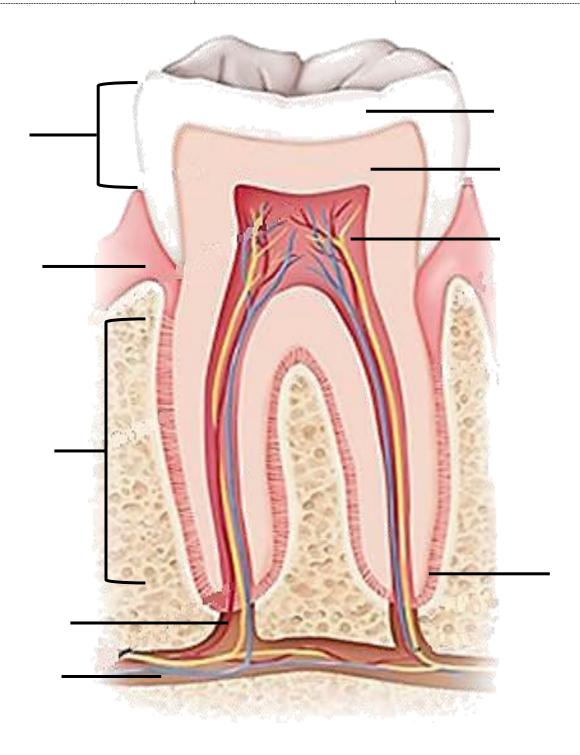
Incisor	Tearing	Grinding	Biting
Cutting	Molars	Premolar	Tearing
Grinding	Molar	Incisors	Canines
Premolars	Biting	Canine	Chewing

Humans have 8 food.	$_{-}$. They are chisel shaped and used for $_{-}$ $_{-}$	_ and
Humans have 4 into food.	They are pointed and sharp and used for	and
 Humans have 8 food.	$_{-}$ $_{-}$. They are flat with 2 cusps and are used for $_{-}$	and
Humans have 12 grinding food.	They are flat with 4 cusps and are used for	and
Label the types of teeth	B A A COULD	
Α		Premolar
B C D		Canine
		Incisor
E	E - (1)	Molar
F G	F — (B)	
н	6-00000	

Tooth labelling

Correctly label the different parts of the tooth using the words in the box.

Dentine	Gum	Crown
Cementum	Pulp	Nerves
Blood vessels	Enamel	Root



Definition match up

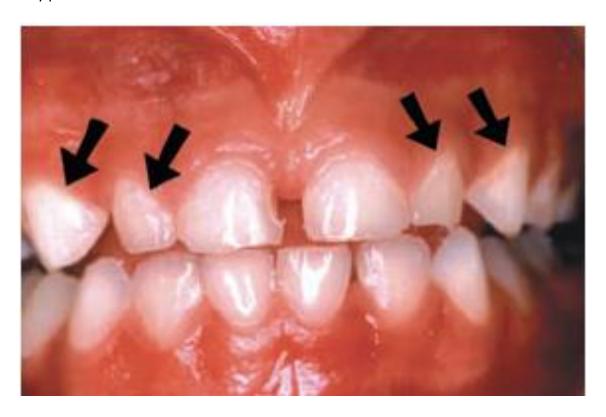
Match the dental word with its correct definition.

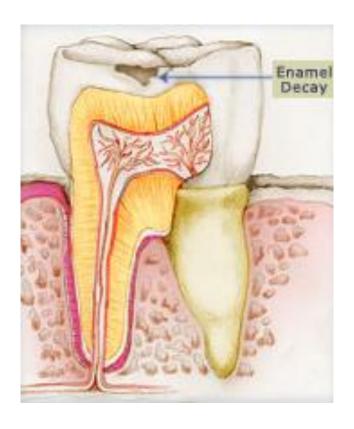
Canine	Cementum	Crown	Dentine	Enamel
Fluoride	Incisor	Molar	Plaque	Premolar
Primary teeth	Pulp	Root	Secondary teeth	Tooth decay
	1. Hard, white la	ayer that covers th	e crown of the too	th
	2. The middle la	yer of the tooth. I	t is covered by ena	mel
	3. Thin layer covering the root of the tooth. This part of the tooth helps keep the tooth in the jaw.			
	4. The third layer of the tooth. It has nerves and blood vessels.			
	5. Tooth used for cutting/biting into food. Humans have 8 of these types of teeth.			
	Tooth used for tearing food. Humans have 4 of these types of teeth.			
	7. A permanent tooth which sits between the canine and molar teeth.			
	8. Tooth used for grinding food. Humans have 12 of these types of teeth.			
	9. The part of the tooth that sits on top of the gum that you can see.			nat you can see.
	10. The part of the tooth which sits inside the gum.			
	11. Bacteria + sugar = acid + tooth = decay.			
	12. Special ingredient in toothpaste that helps stop tooth decay.			
	13. The first set of teeth humans get. They are also called baby teeth.			
	14. The second set of teeth humans get. They are also called adult teeth.			called adult
	15. A sticky, whit	e layer that covers	the outside of tee	th.

What does tooth decay look like?



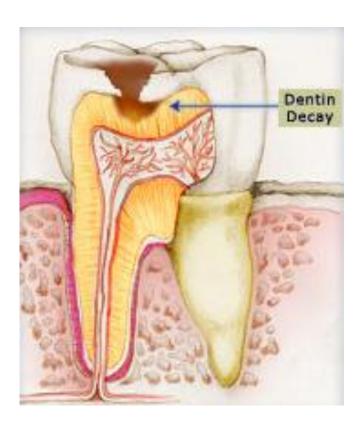
Chalky patches and enamel breakdown on the side of one of the front teeth.





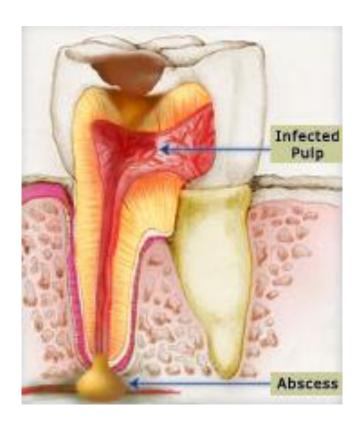
Clearly visible decayed front teeth



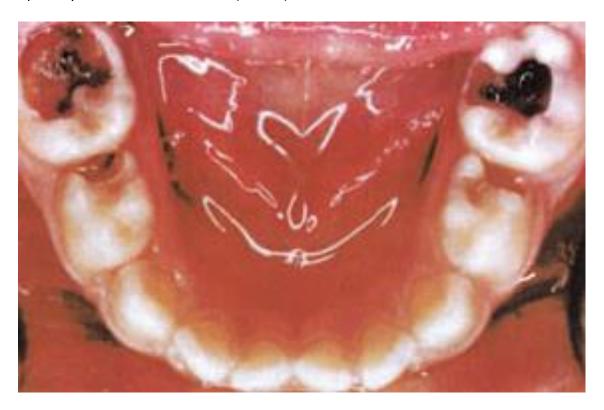


Well-advanced decay. Crowns on the top teeth are breaking down.





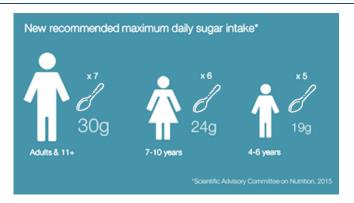
Deep decay in the lower back teeth (molars).



Re-think Your Food and Drink

Recommendations say that adults (and children over 11) should be consuming no more than 30 grams (7 teaspoons) of sugar each day.

Children from 7-10 should consume no more than 24g (6 teaspoons) and children from 4-6 a 19g maximum (5 teaspoons).



Nutrition labels tell you how much sugar a food contains. Food that has 15g or more per 100g is considered high in sugar. Anything under 5g of total sugar per 100g is low.

Sugar conversions: How to calculate the amount of sugar in packaged food/drinks

1 teaspoons of sugar = 4 grams



UNCLE TOBYS CHEWY Apricot			
Servings Per Pack: 6 Serving Size: 31.3g (per Bar)	Average Quantity per Serving	%DI* per Serving	Average Quantity per 100g
Energy	550 kJ	6%	1770 kJ
Protein	1.9 g	4%	6.1 g
Fat-total	4.3 g	6%	13.7 g
- Saturated	1.4 g	6%	4.4 g
Carbohydrate	20.5 g	7%	65.4 g
- Sugars	6.7 g	7%	21.3 g
Dietary Fibre	2.0 g	7%	6.5 g
Sodium	4 mg	1%	13 mg

Sugar (grams) per serve = 6.7g (see nutrition label)

Sugar (teaspoons) per serve = 6.7g / 4 = 1.7 teaspoons per muesli bar

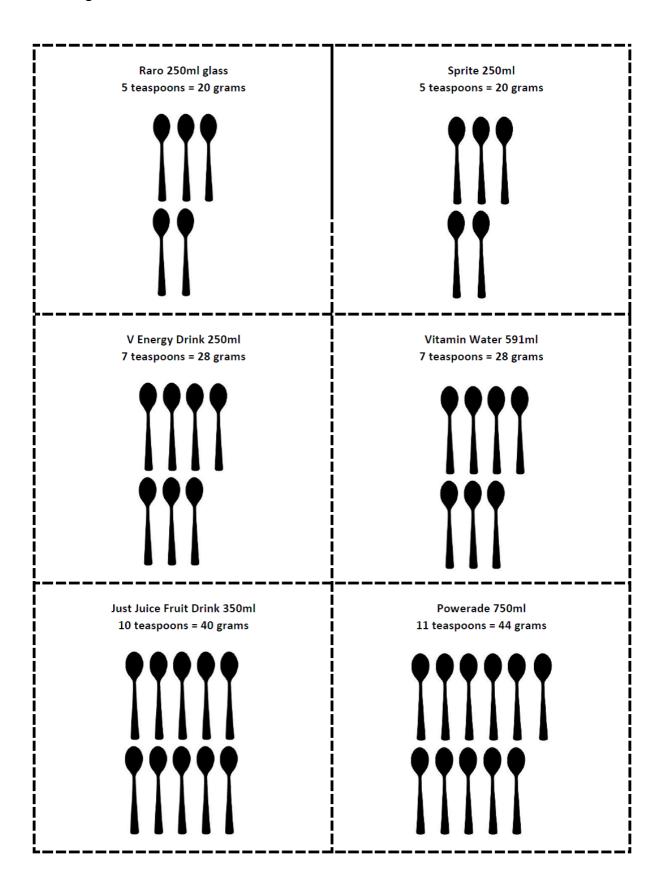
Sugar (grams) per 100g = 21.3g (see nutrition label)

Sugar (teaspoons) per 100g = 21.3g / 4 = 5.3 teaspoons per 100g

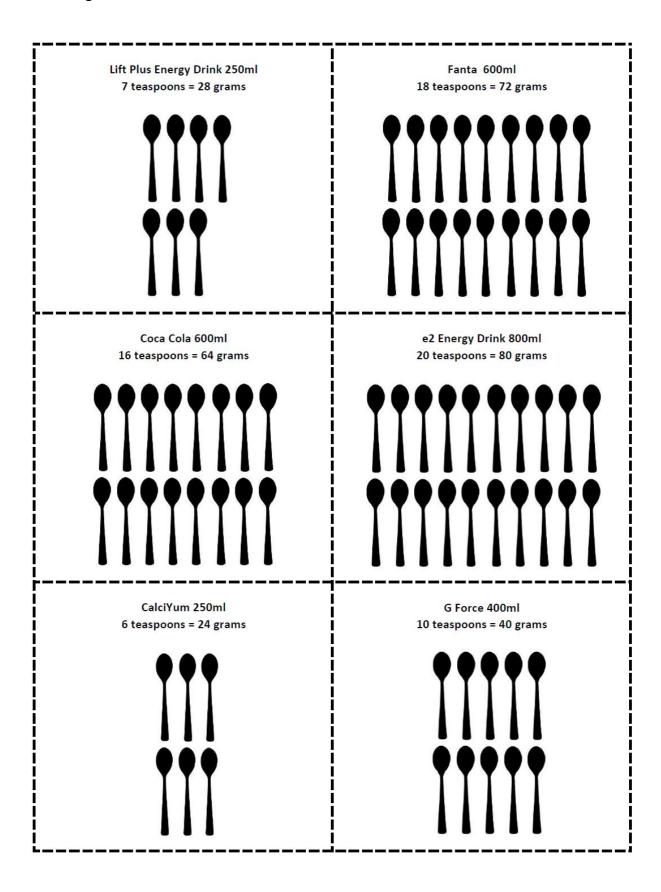
When comparing the amount of sugar in different products, use the per 100g calculation to compare "like for like".

- Practice reading the labels of different foods and drinks to work out how much sugar they have. Compare how much sugar is in your favourite drink compared to the World Health Organisation's recommendations for daily sugar intake.
- Print and cut out the flashcards from the template provided. These can be used to:
- Create your own sugar kit: fill bags or empty drink bottles with the correct amount of sugar
- Using the pictures only, put the cards in order from least to most sugar content.

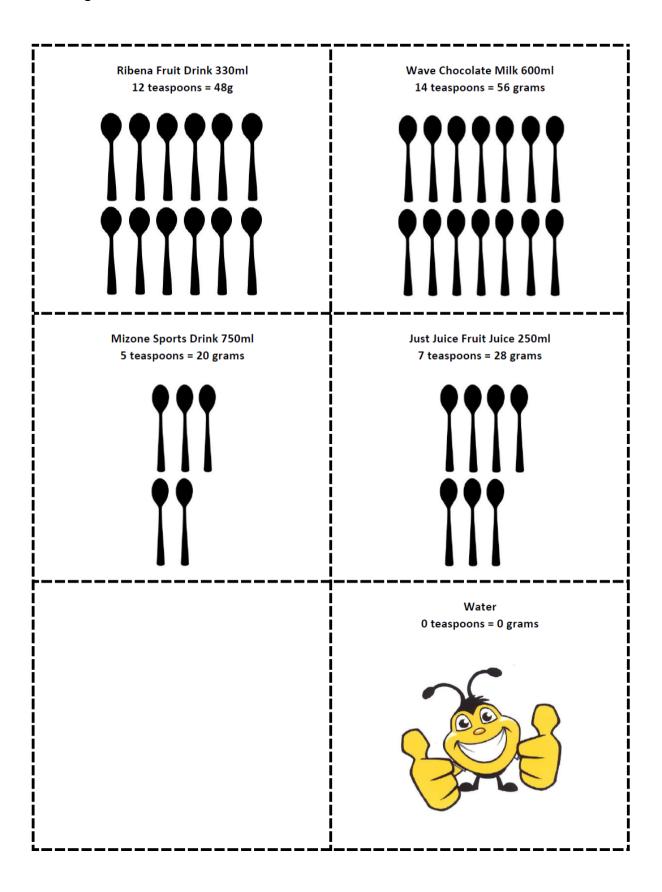








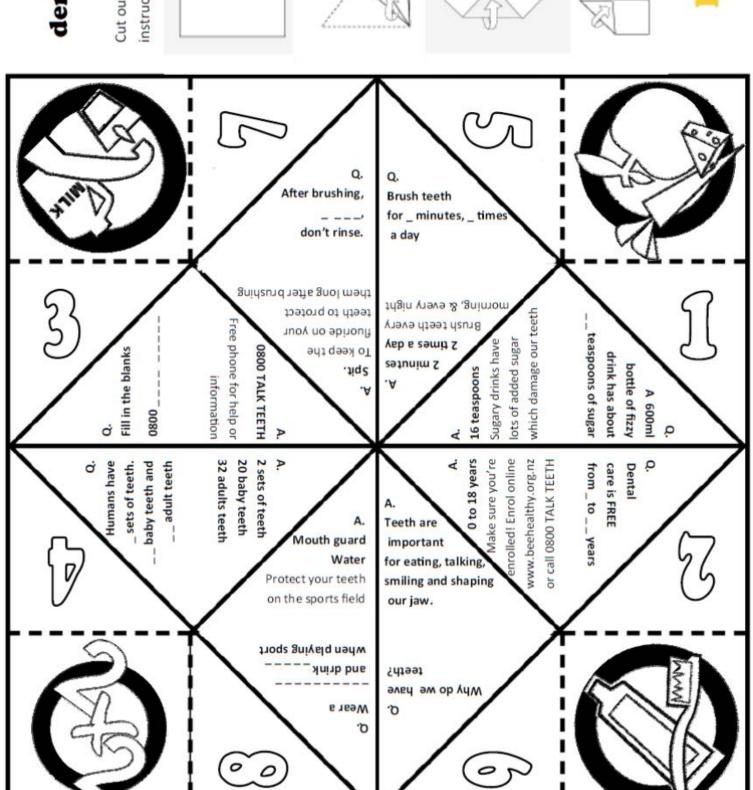




Create your own

dental fortune teller

Cut out the square and fold using the instructions below:



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Useful Websites

Bee Healthy Regional Dental Service

www.beehealthy.org.nz

New Zealand Dental Association- Healthy Smiles

www.healthysmiles.org.nz

Let's Talk Teeth, Ministry of Health

www.health.govt.nz/your-health/healthy-living/teeth-and-gums/its-easy-protect-your-familys-smile

Fighting Sugar in Soft Drinks (FIZZ)

www.fizz.org.nz

Colgate- Bright Smiles, Bright Futures

www.colgate.com/app/BrightSmilesBrightFutures/US/EN/Program-Materials/For-Educators/Teachers.cvsp

World Health Organisation- Oral Health

www.who.int/oral health/en

Smiles 4 Miles - Dental Healthy Services Victoria

www.dhsv.org.au/oral-health-programs/smiles4miles

The British Dental Health Foundation

www.dentalhealth.org

Teacher feedback form

Thank you for taking the time to complete this feedback form. Please return your completed form by either: Email: neela.bhana@huttvalleydhb.org.nz Post: Early Intervention and Prevention Team Bee Healthy Regional Dental Service PO Box 31 907 Lower Hutt 5040 1. What year level do you teach? (please circle) New entrants/Year 1 Year 7 Year 3 Year 5 Year 2 Year 4 Year 6 Year 8 2. Has oral health been discussed previously in class? If so, what did this cover? 3. Are the supporting resources provided in this toolkit appropriate for your class? 4. Did you feel confident talking about oral health using this teaching guide? 5. Are there any improvements which could be made to this teaching guide? 6. Other comments.

