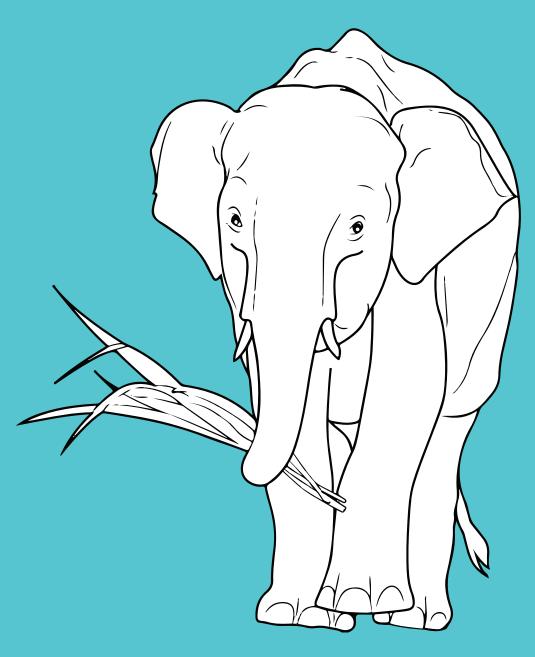
Auckland Zoo Education Pack

Primary



Theme: Food at the zoo



Zoo Lesson plan =

Theme:

Primary (ages 5-11) FOOD AT THE ZOO

What will I learn:

How both nutrition and behavioural enrichment are important for all animals!

Inspire

Nutrition is important for animals because it gives them all of the nutrients they need to stay healthy.

Behavioural enrichment provides animals with stimulating opportunities and challenges to enhance welfare at the Zoo.

- Watch zookeeper Georgia feed our <u>quirky and</u> <u>curious longfin eels</u>, and zookeeper <u>Sam prepare a</u> <u>summer treat for squirrel monkeys!</u>
- Something as simple as mud can be perfect enrichment for animals like rhinos. Watch Inkosi enjoy a wallow in his mud bath.
- Our endemic kea require special enrichment to keep their clever brains working hard. Watch birdkeeper Devon prepare some <u>tricky enrichment items for</u> our curious kea!
- Watch lan, our stores coordinator take you on a tour to find out what it takes to provide food for all of our animals at the Zoo

Explore

Not all animals eat the same food. Explore <u>Auckland Zoo's website</u> and discuss the words "herbivore", "carnivore" and "omnivore", then see if you can sort our animals into these three groups. Use the template **Our Food-Fill Your Buckets** to fill in what types of food three of our animals may eat in a day. (Resource attached)

Log the foods you eat in our **Eat Me Rainbow** (resource attached) and see what superpowers you are getting. What vitamins and nutrients are provided for by the rainbow?

What happens after the animals eat their food? Can you guess **Who's Poo**? (resource attached).

Create

Our zookeepers make sure that the animals have everything they need for a happy, healthy life.

Pretend you are a keeper looking after a certain animal.

- Draw your animal in its zoo habitat.
- Find out what your animal eats. Is it an herbivore, omnivore or carnivore
- Design a fun enrichment item for your animal.

Create a behavioural enrichment item for your pet at home! Follow the steps in our <u>make an enrichment</u> item video.

Reflect

Discuss why it is important to provide behavioural enrichment for all of our animals and why should it match their abilities/adaptations? Use the template **BE Matching Exercise** to see if you can match an enrichment item with an animal at Auckland Zoo. (Resource attached)

Act

Just like our animal friends, we can improve our nutrition by changing what we eat. Challenge yourself to try one new type of food this week or even help plan/cook some yummy meals for the family. You might be surprised!

Can you make some animal themed snacks together?

Try these Seven Fun And Fruity Animal Snacks!

Curriculum links:

Lessons include a range of aspects from the main strands of the NZ Curriculum - English, The arts, Health and physical education, Learning languages, Mathematics and statistics, Science, Social science and Technology.

They also consider the Key Competencies - Thinking, Using language, Symbols and text, Managing self, Relating to others, Participating and communicating.





Learning Outcomes

- · Taking care of our animals wellbeing
- · Taking care of our wellbeing

Here at Auckland Zoo we care for our animals everyday to look after their overall wellbeing.

This is big job as every individual animal in our care needs different things to be in a state of positive welfare.

To help us get this right we rely on the **Five Domains Model of Animal Welfare**. This model is based on the latest science in wildlife conservation. It is widely adopted as best practice in zoos around the world that are accredited members of the World Association of Zoos and Aquariums (WAZA), as Auckland Zoo is.

A simplified version of the Five Domains Model is shown below. The four domains of Health, Behaviour, Nutrition (Food) and Environment are the areas in which we, as animal carers, can take positive action that has an impact on overall wellbeing.



This **Wellbeing Resource Kit** is designed to help you and your students understand how complex it is to look after animals really well within a zoo context.

The activities in this kit also include opportunities to focus on students' own wellbeing. There are parallels to be drawn but also differences to consider in our collective journey to wellbeing.

Each of the resources in this kit is titled indicating which of Five Domains is the focus of the activity:

Our Health
Our Behaviour
Our Food (Nutrition)
Our Environment
Our Wellbeing



Zoo Lesson plan =

Our Food (Nutrition)

We refer to food as nutrition here at Auckland Zoo.

It is vital that our animals receive all the nutrients they need in their diet to stay healthy.

1. Eat Me Rainbow

- Use the worksheet provided for students to record what they eat in a day or week.
- Reflection question: What superpowers does my food give me?

Red

- · Red peppers
- Tomatoes
- Strawberries
- Raspberries
- Watermelon
- Apples
- Cranberries
- Cherries
- Grapes
- Red onion
- Pomegranate
- Beetroot

Healthy heart, healthy skin, run fast

Orange/Yellow

(Vitamin C)

- Orange
- Grapefruit
- Lemon
- Mango
- Papaya
- Carrots
- Sweet potato
- Squash
- Corn
- Melon
- Orange/yellow pepper
- Pineapple
- Peaches

Healthy joints, immune system, eye health, healthy heart, night vision, jump higher

Green

(Vitamin K)

- Broccoli
- Kale
- Romaine lettuce
- Brussel sprouts
- Green grapes
- Green apples
- Asparagus
- Spinach
- Green beans
- Peas
- Courgette
- Avocado
- Edamame

Energy immune, bones & blood healthy, tissue healing (cuts and bruises 25%)

Blue/Purple

- Blueberries
- Blackberries
- Red grapes
- Purple cabbage
- Eggplant
- Plums
- Prunes
- Figs

Stay young, good memory, brain power

Brown/white

- Cauliflower
- Garlic
- Onion
- Mushrooms
- Potatoes
- Parnships

Bones strong, healthy heart

2. Our Food Poster

• Use the poster as a discussion prompt as well as a chance to learn the terms herbivore, carnivore, omnivore.

3. Our Food - Fill your buckets

· Discuss what food would go into each animal's bucket

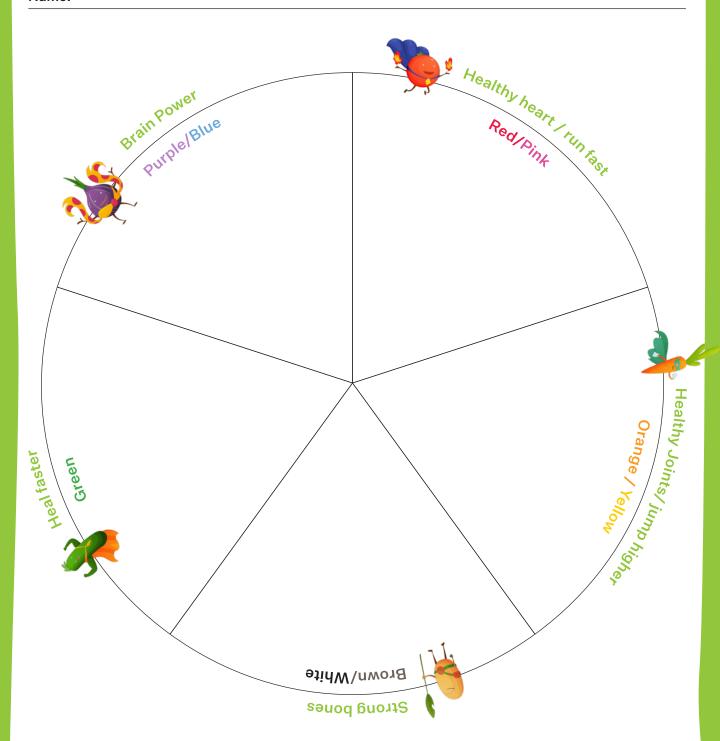




Eat Me Rainbow

Different foods give us different superpowers – log the foods you eat to see what powers you get from your food

Name:



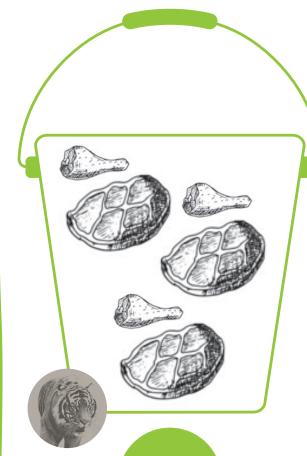
Try to eat as many colours as possible and get all of the superpowers. Draw a picture or write what you ate in each colour section above.





Nutrition

The science that deals with food that is necessary for health and growth





Tiger

• 3kg of mea

Spider Monkey

- 1 cup of fruit
- 1/2 cup of pellets
- 1/2 cup of chickpeas
- 3 cups of vege

Kea

- 2 teaspoons of
- 1 tablespoon pellets
 - 1/2 cup of fruit
 - 1/2 cup of vege
- 1 teaspoon seeds

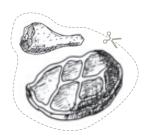


Auckland
Wildlife conservation science at work



Fill your buckets

Cut out the food and place it in the correct bucket



1kg of meat



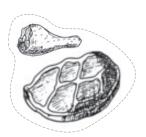
1/2 cup of fruit



3 cups of veges



1 cup of fruit



1kg of meat



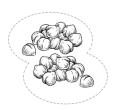
1 teaspoon seeds



1/2 cup of veges



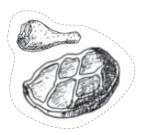
2 teaspoons of soaked sprouted seeds



1/2 cup of chickpeas



1/2 cup of pellets



1kg of meat



1 tablespoon pellets





Fill your buckets - Easy Version

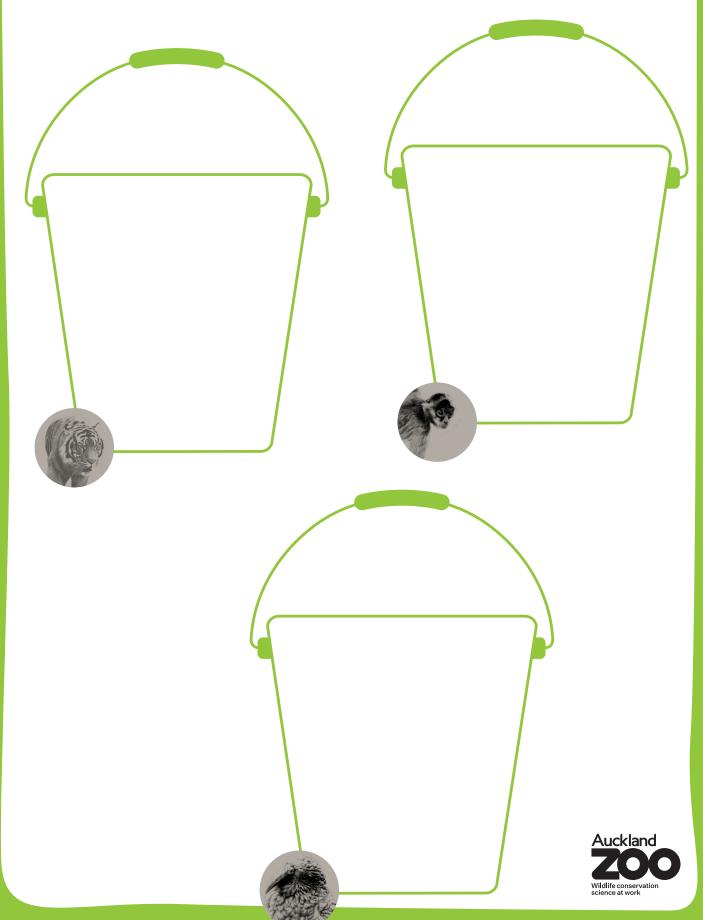
What would you feed the following animals in a day?





Fill your buckets

What would you feed the following animals in a day?





We are visiting all sorts of amazing places around the world. We are hoping to catch a glimpse of some of our favourite animals, but sometimes, all we can find are the traces they leave behind. Are you a super sleuth?

Can you match these animal pictures to their names and the poo they left behind?

Draw a line to connect the words and images.











2.



Capybara



D.

Squirrel Monkey





Ostrich











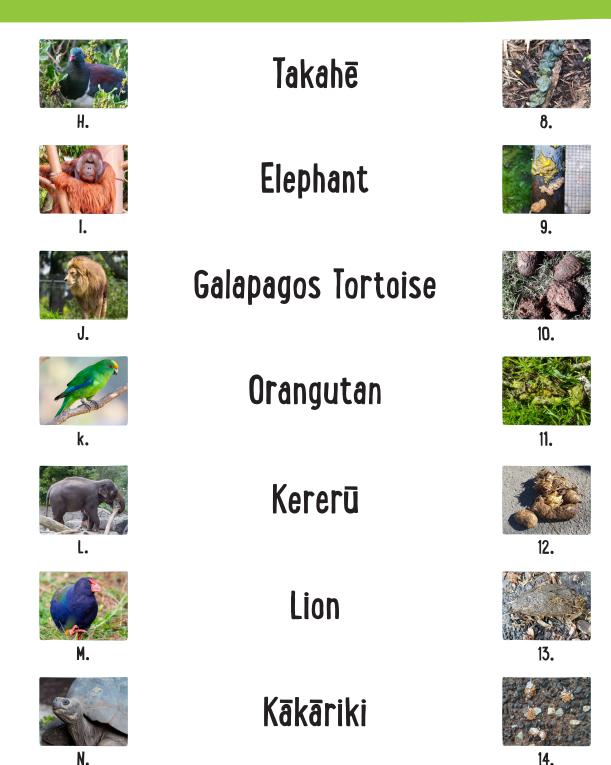
G.

Rhino



7.





Clues

- Do you know how big the animal is? Sometimes size matters (but not always!)
- Find out who is an herbivore (hindgut fermenter and foregut fermenter), omnivore and carnivore.
- Can you tell what the animal has eaten by looking at its poo?
- Find out who is a mammal, bird, reptile, and insect.

Extra for experts

• We compost herbivore poo to make bags of Zoo Doo, a fertilizer for your garden with a wild side! Why do we use herbivore poo? Will any poo do?

Did you know?

 Zookeepers spend a huge amount of time looking at poo. A change in the look of an animals' poo can be the first sign that they are unwell.





Behavioural enrichment gives animals the opportunity to display their species-specific behaviours, encourages them to choose to interact or not interact within their habitat and enhances welfare.

Zookeepers figure out ways to encourage the animals to use their habitats, adaptations and brain power and often create interesting items for the animals to interact with, so providing the best welfare as possible. This can include sensory enrichment such as introducing

different smells to their habitat, cognitive enrichment such as puzzles or challenges to exercise their minds, food enrichments to encourage natural foraging behaviours and even something as simple as changing the bedding or materials in an animal's habitat.

See if you can match up the enrichment item with the correct animal below.

Match a letter of the Enrichment item with a number that corresponds with the animals from the list in the middle. *Note: Some items may work for more than 1 animal.*

Behavioural Enrichment:



A. Pinecone with peanut butter



B. Bamboo tube with fruit inside



C. Small wire hanging ball with hay (lucerne)



D. Tall tree with hanging hay basket



E. A pit filled with mud



f. Ropes suspended between trees



6. Adding scents to habitats



H. A large bone with meat

Animals to choose from:



1. Lion



5. Siamang Gibbon



2. Ostrich



6. Otter



3. Kea



7. Rhino



4. Giraffe



8. Emperor Tamarin

Answers:

A. _____ E. ____ B. ____ F. ____

. _____ G. ___

_____ Н. ____

