

Day Four

Fifth section

Use your boxing up planner to help you. Look back at Pie Corbett's model text to help you too.

In this section I want you to:

- ★ have your main character return to the wish-granting character;
- ★ combine the needs of your MC's friends or family into one wish;
- ★ describe the setting.

As quick as a flick, it came to her! She knew what to wish for. The sun was setting, and the moon was beginning to take over the day. Zoe could see the moon's light reflecting on the surface of the waves. It was time to talk to the Queen of the Oysters.

Down, down, down she swam. The Queen of the Oysters was there, waiting. Zoe used her hands to wish underwater. She used actions and hand signals to ask for her heart's desire: "I wish for my mum to be chasing my puppy around my mansion's garden."

- ★ **Check your punctuation and spelling.**
- ★ **Have you remembered full stops? Are there capital letters after the full stops? Have you remembered the comma after your fronted adverbials?**

Lesson 19 – WALT: Problem solve using addition and subtraction.

Discover



Which model would you use?

Would a bar model represent the problem well?

- 1 a) Show how to find the number of votes for Yes using a diagram.
- b) Decide on the best strategy to calculate the answer.
Did Yes or No get more votes?

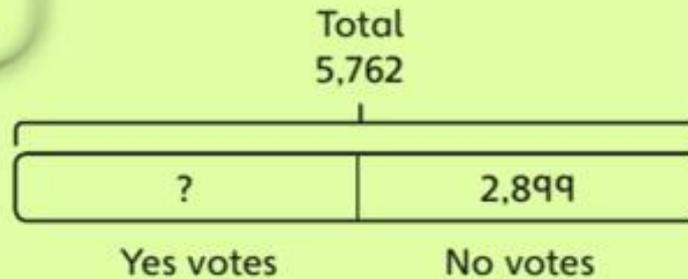
a)



I will show this using a part-whole diagram.



I will use a bar model.



Both diagrams show the parts and the whole. The missing part is the number of Yes votes.

b) We need to subtract to find the missing part.

	Th	H	T	O
	4	6	5	2
-	2	8	9	9
	<u>2</u>	<u>8</u>	<u>6</u>	<u>3</u>

	Th	H	T	O
	4	7	6	3
-	2	9	0	0
	<u>2</u>	<u>8</u>	<u>6</u>	<u>3</u>

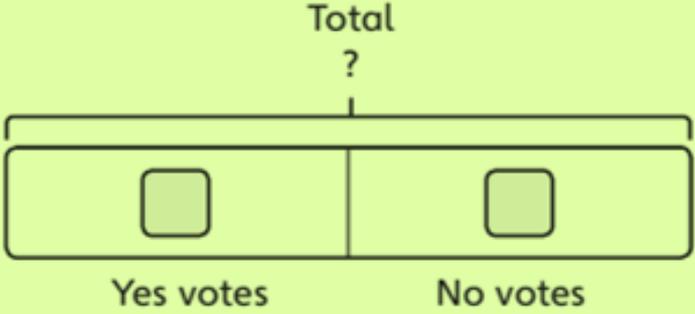
There were 2,863 Yes votes. No got more votes because 2,899 > 2,863.

What does 'part' mean?

What does 'whole' mean?

1 In another vote, 1,775 people voted Yes and 3,007 voted No. How many people voted?

Add the information to the bar model, then show the calculation to find the answer.



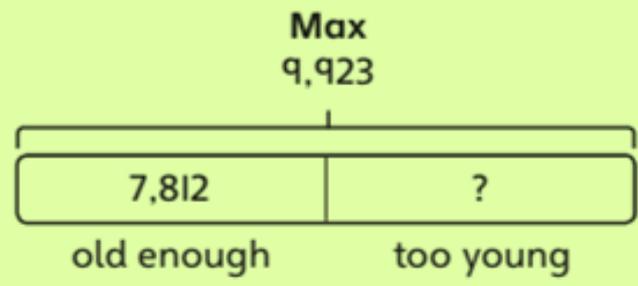
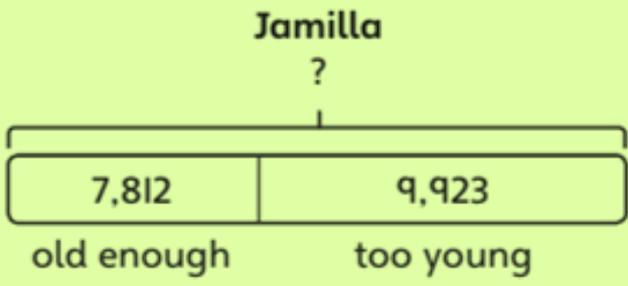
Th H T O

people voted.

How do you know that this is an addition problem?

2 Jamilla and Max have drawn bar models to solve this problem: 9,923 people live in a small town. 7,812 people are old enough to vote. How many people are too young to vote?

Discuss the bar models. What is right and wrong about each one?



What does the bar model need to show?

Practice Questions

- 1** a) Ambika poured 2,500 ml of water onto a flower bed. Aki poured 3,100 ml of water. How much water did they pour altogether?

<input type="text"/>	<u>Th H T O</u>
┌──────────────────────────────────┐	
└────────── 2,500 ───────────┘	+
└────────── 3,100 ───────────┘	_____

They poured ml of water altogether.

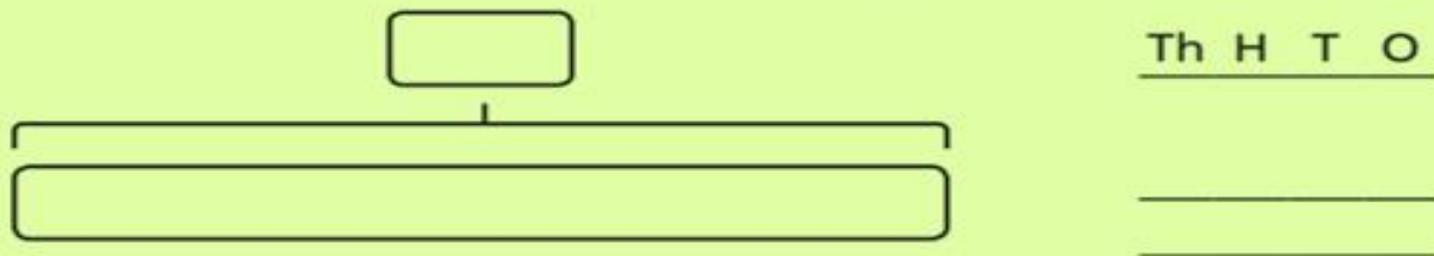
- b) Ambika started with 5,000 ml in her watering can. How much water does she have left now?

<input type="text"/>	<u>Th H T O</u>
┌──────────────────────────────────┐	
└────────── ───────────┘	_____
└────────── ───────────┘	_____

Ambika has ml of water left now.

2 Complete bar models to show both of these problems, then find the solutions to them.

- a) Mrs Dean lives 5,000 m from her school. She has cycled 3,900 m so far. How far does she have left to cycle?



She has m left to cycle.

- b) Mr Jones walks 1,250 m to the bus stop, then travels 2,800 m on the bus. How far does he travel altogether?

He travels m altogether.

3 Draw bar models and find the missing numbers.

a) - 3,750 = 4,000

b) 4,000 - = 3,750

4 Crack the code.



★ is worth 2,000 less than ☁

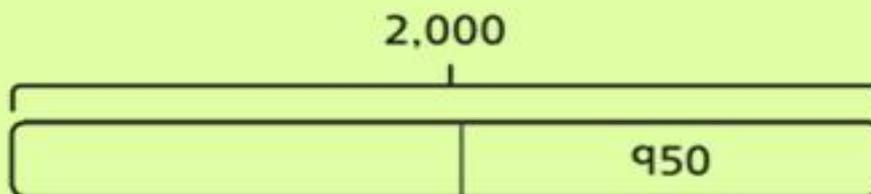
♥ is worth 1,000 more than ★



☁ = ▲ = ♥ = ★ =

Reflect

Write and solve a story problem to go with this bar model.



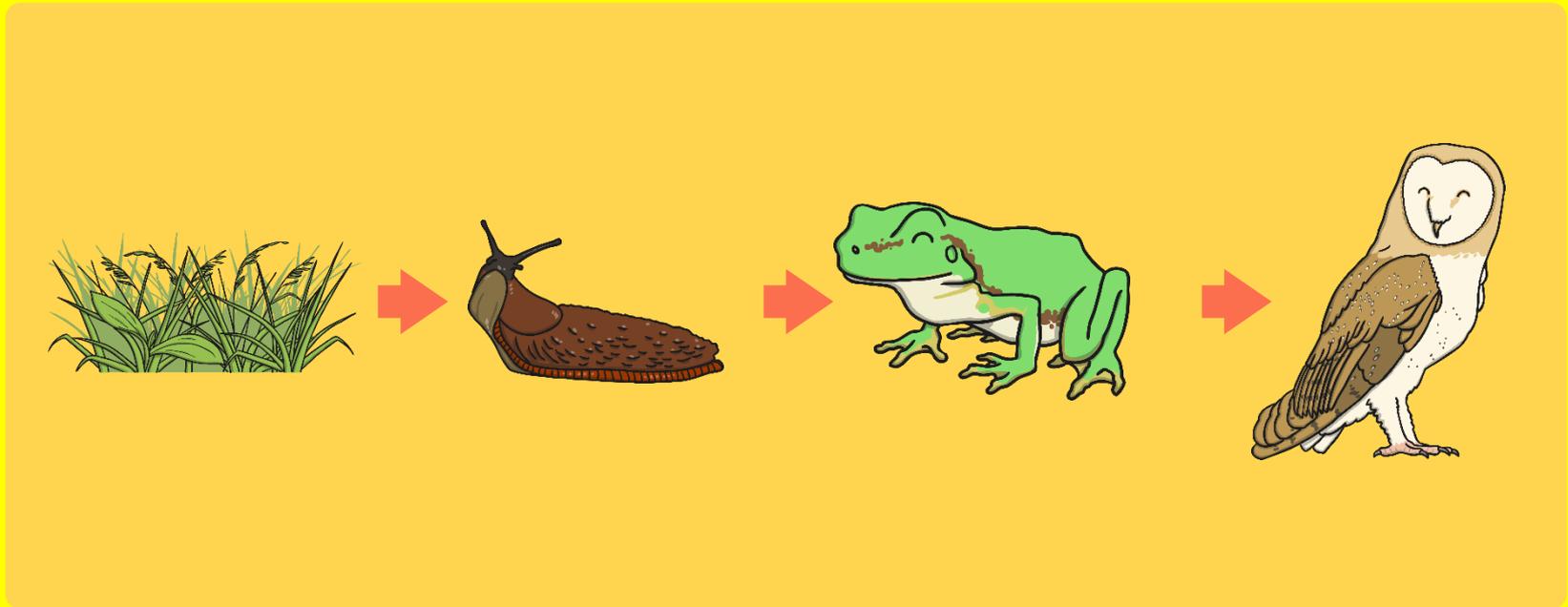
Food Chains



What is a food chain?

Now watch [the following video clip](#) and see if we can add to or refine our ideas.

Interpreting Food Chains

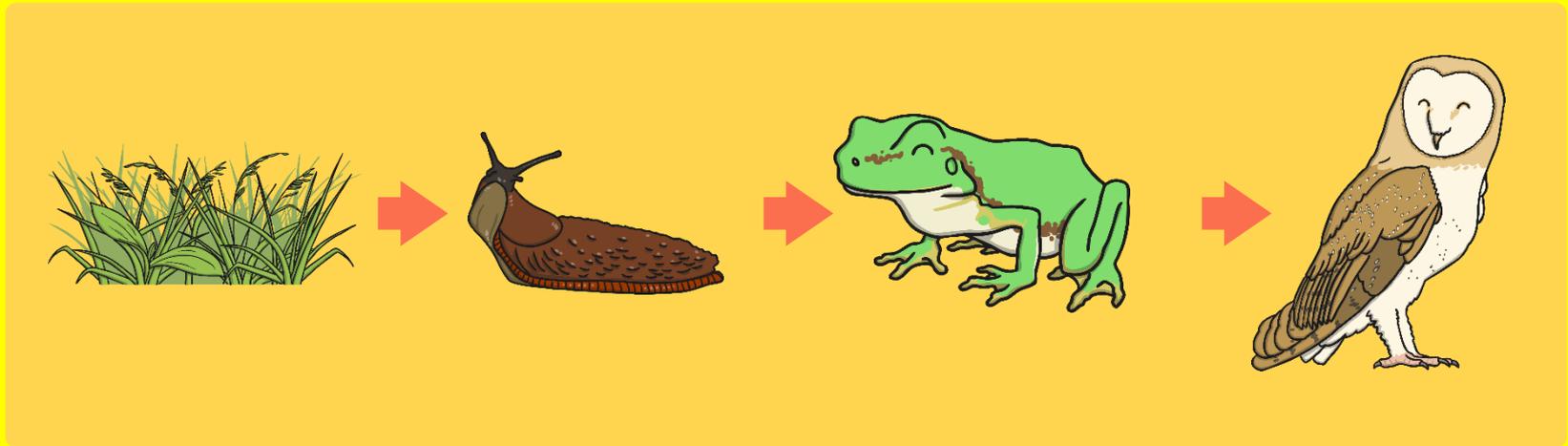


How is this food chain constructed?

What do the arrows represent?

How should we label the different parts of the food chain?

Labelling Food Chains 1



Producer/Autotroph

Consumer

Consumer

Consumer

Primary
Consumer

Secondary
Consumer

Tertiary
Consumer

Prey

Predator/Prey

Predator

Detritivore

Omnivore

Carnivore

Get familiar with the vocabulary

Herbivores	A green plant that produces its own food
Carnivores	An animals that eats plants and animals
Omnivores	Eat plants and / or animals
Producers	An animal that eats plants

Match up the word with the meaning.

These words would be found in a glossary if they appeared in a book on food chains.

Consumers	Animals that predators feed on
Predators	An animal that eats other animals
Prey	Animals that kill for food

Get familiar with the vocabulary

These words may be unfamiliar, but have a go, you can do it!

Primary Consumer	An animal that eats secondary consumers
Secondary Consumer	An animal that eats plants
Tertiary Consumer	An animal that eats primary consumers

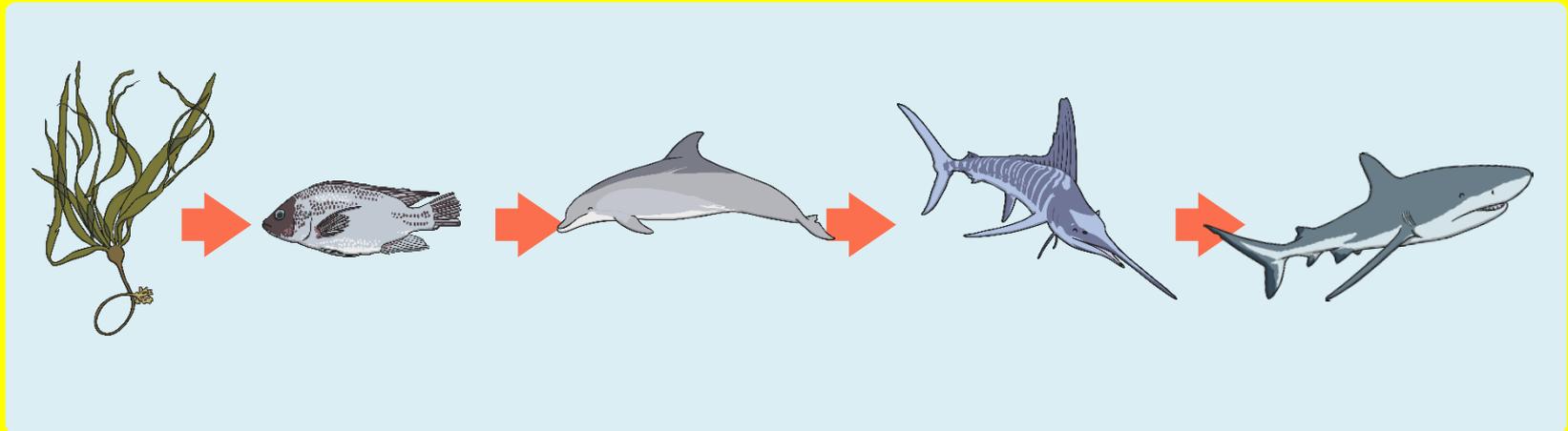
Interpreting Food Chains

Write out the words with their meanings. Extra Challenge: Three new words on this list, can you write a meaning for each one?

Words	
Herbivores	
Carnivores	
Omnivores	
Detritivores	
Producers/Autotrophs	
Consumers	
Primary Consumer	
Secondary Consumer	
Tertiary Consumer	
Prey	
Scavenger	
Predators	
Decomposer	nto

Labelling Food Chains 2

Here is a more complex example:



Producer/
Autotroph

Consumer

Consumer

Consumer

Consumer

Primary Consumer

Secondary
Consumer

Tertiary Consumer

Quaternary
Consumer

Prey

Predator/Prey

Predator/Prey

Predator/
Scavenger

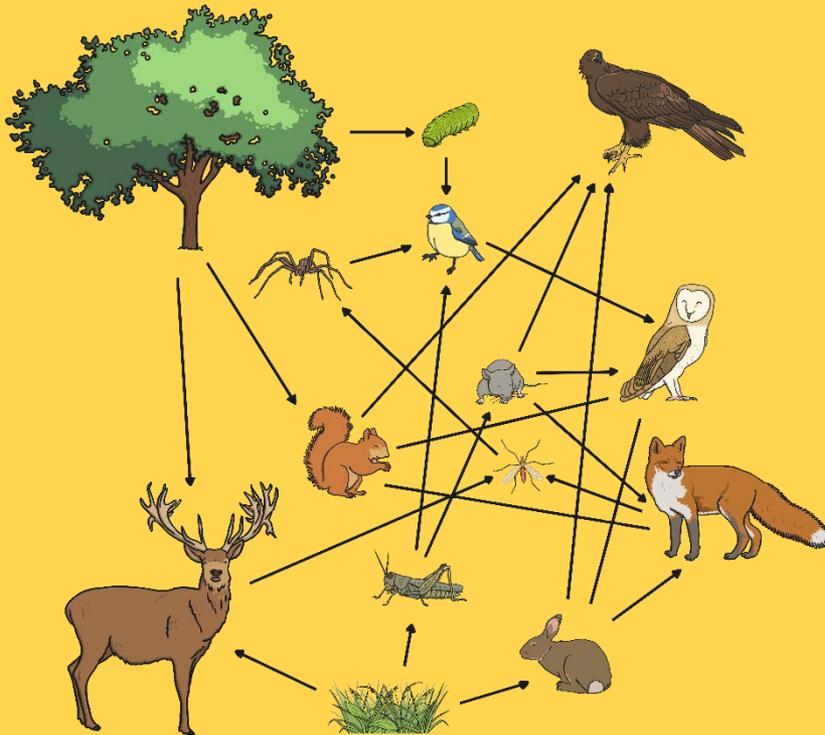
Herbivore

Carnivore

Carnivore

Carnivore

Interpreting Food Webs



How are food webs similar/different to food chains?

When would it be better to use a food chain?

When would a food web be better?

Research and draw some food chains in your books. Remember to label the chain with the correct vocabulary. Try to do as many as you can and if you get stuck look at the Food Chain Animal suggestions to help you. Good Luck!

Create a food chain that contains one carnivore and one herbivore.

Create a good chain with one producer, a primary consumer and a secondary consumer.

Create a food chain where the last consumer is an omnivore.

Create the longest food chain you can including a producer, detritivore and at least one consumer.

An extra challenge if you want it! These are more tricky, but go for it!

Create a food chain with 4 consumers.

Create a food web with one producer and at least two consumers who are also herbivores.

Create a food web which contains a consumer who is a scavenger and at least two other consumers.

Use as many of the producers and consumers as you can to create a food web. How many consumers altogether? How many of these are predators?

Food Chains Sorting Cards

If you need some help to get started



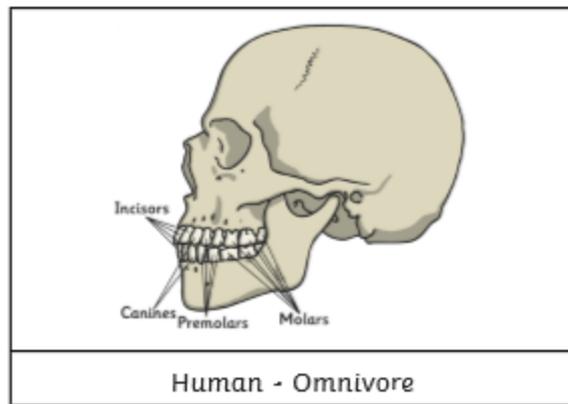
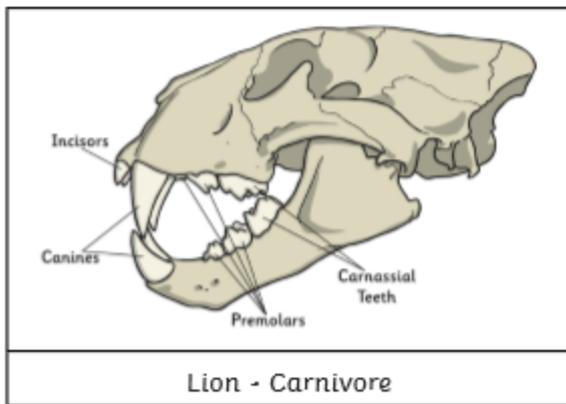
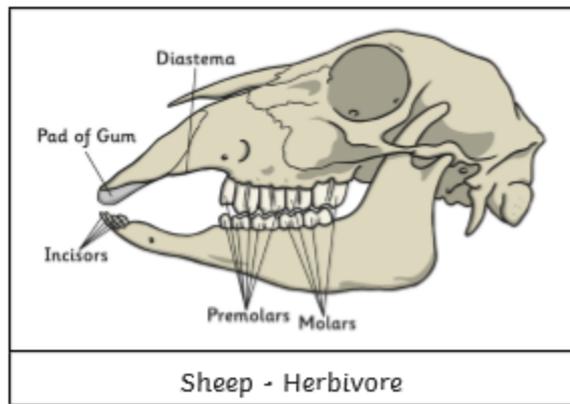




Comparing Animal Teeth **Answers**

I can identify the types and functions of teeth.

I can identify similarities and differences related to scientific ideas.



Do all three have any teeth that are the same? Which type of teeth?

They all have premolars.

Why do you think they have the type of teeth that you stated above in common?

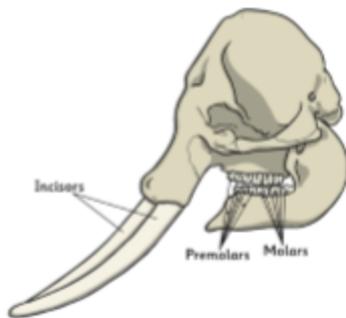
I think they all have premolars because they all need to hold and crush their food.



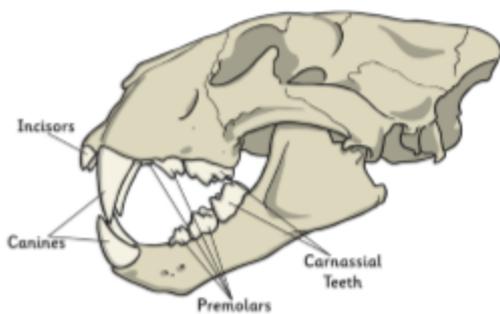
Comparing Animal Teeth **Answers**

I can identify the types and functions of teeth.

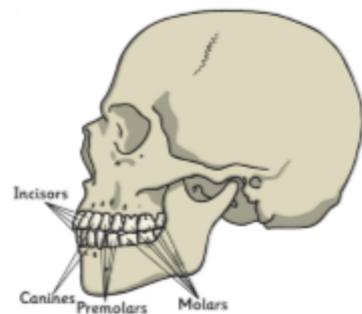
I can identify similarities and differences related to scientific ideas.



Elephant - Herbivore



Lion - Carnivore



Human - Omnivore

What are the differences in the type of teeth these animals have?

The elephant has lots of flat molar and premolars for eating its plant diet. The lion has sharp teeth to tear the meat off its prey. Humans have a mixture of sharp and flat teeth as we are omnivores.

What would happen if the lion had teeth like an elephant?

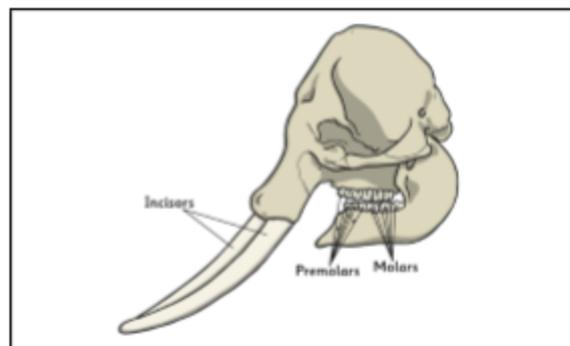
If the lion had teeth like an elephant, it would not be able to rip and chew the meat off its prey.



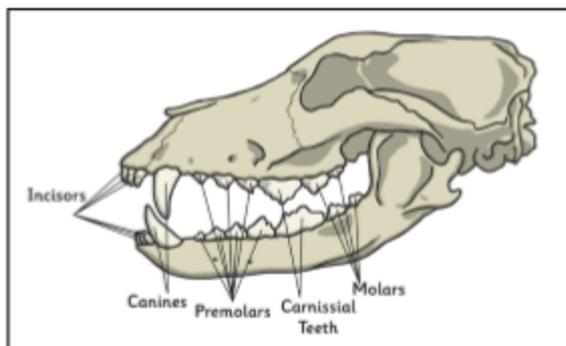
Comparing Animal Teeth **Answers**

I can identify the types and functions of teeth.

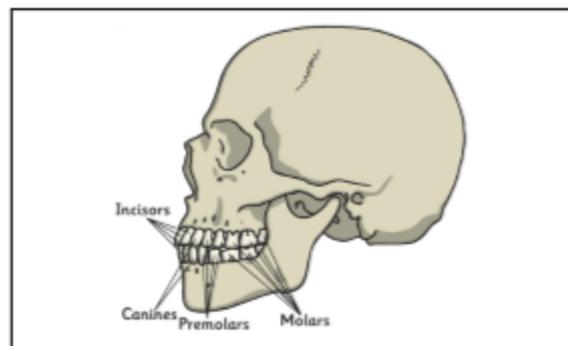
I can identify similarities and differences related to scientific ideas.



Elephant - Herbivore



Dog - Carnivore



Human - Omnivore

Are there any types of teeth that all three have in common? Why do they have these in common?

They all have premolars and molars because all 3 animals need to hold and crush their food before swallowing it.

Explain any differences that you have found between the types of teeth the animals have:

The elephant has lots of flat molar and premolars for crushing its plant diet, as well as large incisors that are outside the mouth. The lion has lots of sharp teeth to tear the meat off its prey. The human has a mixture of sharp and flat teeth as we are omnivores.