FAMILY ACTIVITIES

Learning with DINSSAURS



Welcome

From the wondrously long-necked *Diplodocus* to the iconically ferocious *Tyrannosaurus*, dinosaurs spark curiosity amongst learners of all ages. While childhood trends may come and go, dinosaurs have stood the test of time as an intense interest which transcends cultural and linguistic boundaries. These astonishing creatures help us learn about our planet and the natural world, encouraging scientific thinking and exploration. With this in mind, it only makes sense to bring this topic of wonder into our homes.

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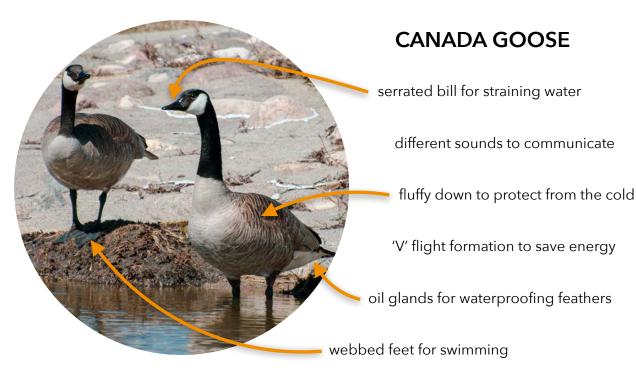
This booklet contains activities for children and adults to enjoy together.

The main activities were created with learners in Grades 4 to 6 in mind.

A small collection of activities for younger learners can be found on Page 5. Happy exploring!

Adaptations

An **adaptation** is an animal's physical or behavioural characteristics that help it survive in an environment. These characteristics come about slowly over long periods of time through the process of evolution. For example, the webbed hind feet of the beaver were not an instantaneous coincidence—over many generations, beavers adapted to their environment. Being semi-aquatic rodents, beavers with webbed hind legs were faster, more efficient swimmers and therefore better equipped for escaping predators and conserving energy. Having this adaptation would have helped a beaver to survive longer, and therefore have more opportunities to reproduce and create offspring with similar qualities. This slow process of change over time leads to animals having adaptations. Look at the adaptations Canada geese have below! Can you think of adaptations other Canadian animals have to help them survive?

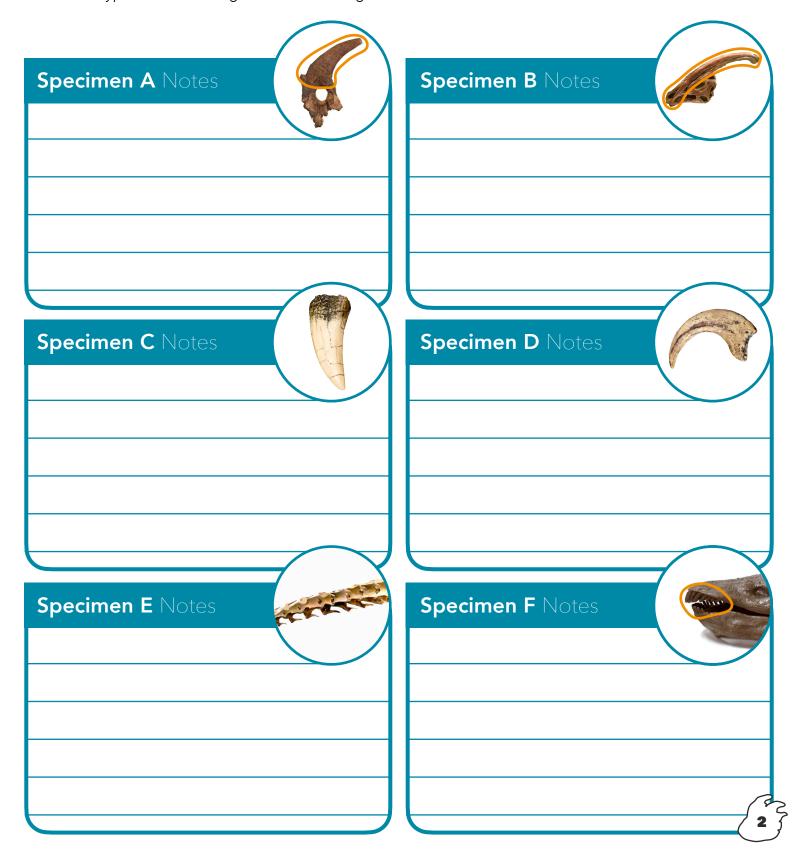




Dinosaur Adaptations Activity

Cut out the six flashcards on the final page of this booklet. Be careful not to flip them over—the answers are on the back! As you explore each of the six dinosaur specimens, use this page to make notes on what you observe. See if you can answer the following questions:

- What do you think this is?
- How might this help a dinosaur survive?
- What type of dinosaur might this have belonged to?

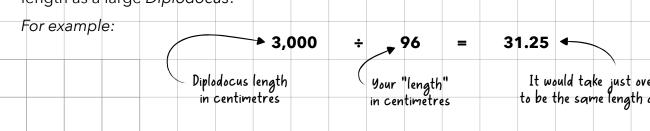


How big is a Diplodocus?

Diplodocus is a genus of long necked dinosaurs that is one of the longest known dinosaurs. First discovered in 1877, these animals had four powerful legs and a great long tail. Researchers believe Diplodocus was a herbivore that fed by stripping branches. With a centre of mass close to the hip socket, it likely could rear up onto two legs to increase its feeding height. Dippy, a composite skeleton of a Diplodocus carnegii, is considered one the most famous single dinosaur skeletons in the world!

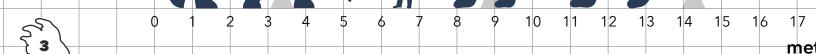
Diplodocus was one long dinosaur! Some individuals are believed to have been up to How many people lying down end-to-end would that be? You can find out!

First, have an adult help measure your height in centimetres. Next, divide 3,000 cm (30 The answer will be the number of people your height it would take, stacked end-to-end length as a large Diplodocus!



Diplodocus hallorum

African Bush Elephant



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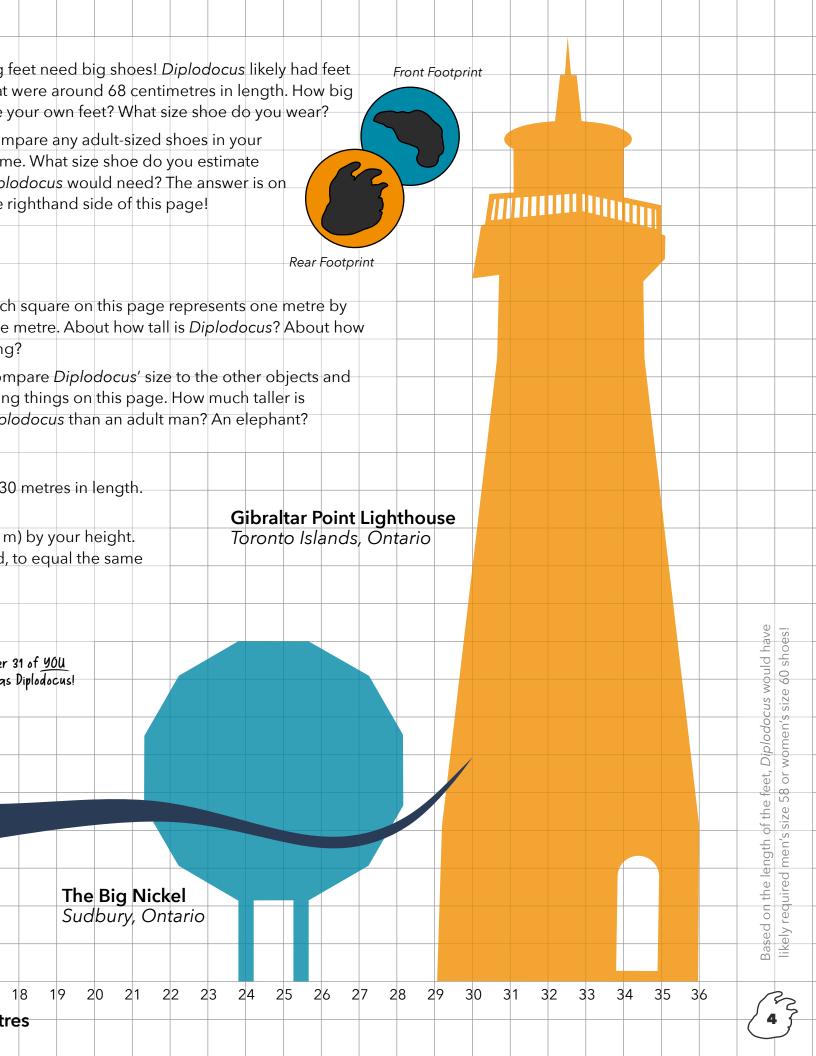
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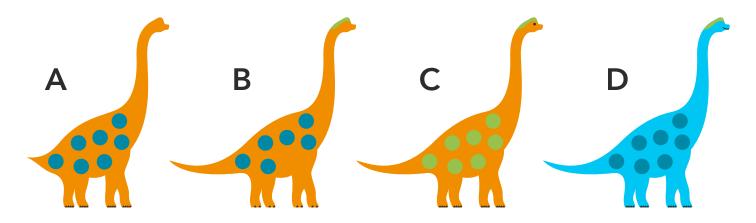
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Activities for Younger Learners

Which of these pretend dinosaurs does not belong? Why? There is more than one correct answer.

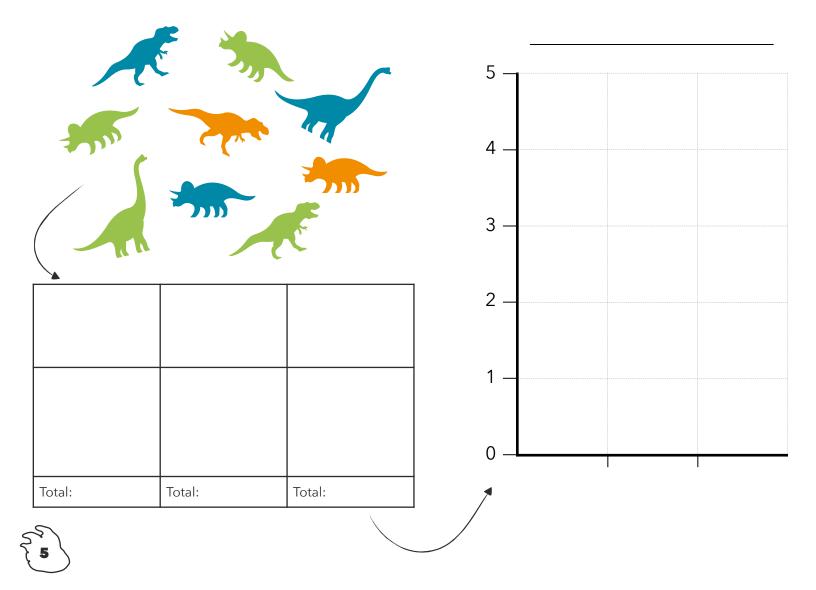


Look at the group of dinosaurs below.

How can you sort the dinosaurs in different ways? (e.g. by colour or by shape)

Create a tally chart to compare the number of dinosaurs.

How can you display this data in a bar graph?



B

Parasaurolophus could have used its crest as a resonating chamber for communication.



peh·ruh·saw·RAA·luh·fuhs

4

Triceratops had postorbital horns to defend itself from predators.



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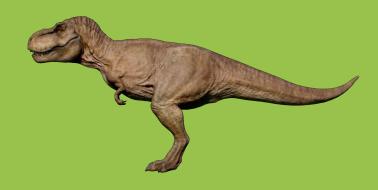
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Velociraptor had sickle claws for ripping flesh.



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Tyrannosaurus had large, wide, pointed teeth for both ripping flesh and crushing bone.



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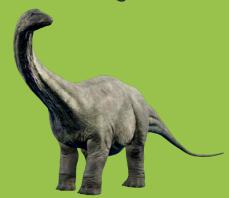
Diplodocus had peg-like teeth, only at the front of its jaws, for stripping leaves from trees.



duh·PLAA·duh·kuhs

E

Apatosaurus had a long neck that increased its feeding area.



uh·paa·tuh·SAW·ruhs











