

Roar!



You need ☒ a calculator
☒ a ruler

☒ a stopwatch
☒ a tape measure or a trundle wheel

We're travelling back in time to New Zealand 70 million (70 000 000) years ago.

Use your calculator as your time traveller.

Welcome to the land of dinosaurs and giant reptiles.

Dinosaurs and giant reptiles lived in New Zealand around 70 million years ago.

Activity One

Press 7 on your calculator and then multiply it by 10. Keep multiplying by 10 till you get to 70 000 000.

1. Count how many times you have to multiply 7 by 10 to get 70 000 000.
2. How many times do you have to multiply 7 by 10 to get:
 - a. 70?
 - b. 7 000?
 - c. 70 000?
3. Without using your calculator, can you work out how many times you would have to multiply 7 years by 10 to get 700 million years (700 000 000)?

Pterosaur

Hypsilophodont

Mosasaur

Activity Two

1. The hypsilophodont is 3.5 metres long. Use this to estimate the length of the theropod, the mosasaur, and the pterosaur without a ruler.
2. Use your ruler and the scale to check your answers.

The animals have the following masses:

Theropod 3.89 tonnes

Hypsilophodont 1.83 tonnes

Mosasaur 5.23 tonnes

Pterosaur 0.29 tonnes

3. a. Which animal is the lightest?
b. Why do you think this is?
4. Which animals that are alive today have about the same mass as the mosasaur?



Investigation

Can you and the crew outrun the dinosaurs?

1. Use the tape measure or trundle wheel to measure a 20 metre distance outside.
2. Ask your classmate to time how long you take to run 20 metres.
3. Time how long your classmate takes to run 20 metres.
4. If a theropod can run 100 metres in 20 seconds (when it is hungry!), how long would a theropod take to run 20 metres?
5. a. Can the theropod catch you?
b. Can the theropod catch your classmate?
6. Sam is the slowest crew member. He can run 5.1 metres per second. Will he be caught by the theropod?