



KS2L Mathematics

Working Mathematically - Practising Skills

Dinosaur Maths Challenge!



Dinosaur Maths Challenge

Jump right in to the world of the dinosaur with this fun mathematical challenge!



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These 3 activities can be completed in groups in a carousel system.

Footprints!



Investigate the size of the footprints of two types of dinosaur using the foot casts in the museum.

On The Move

Investigate the step of a *Brachiosaur*.

Compare your step to that of a large dinosaur!



Your investigation will include:

Comparisons Calculations

You will also travel back in time by constructing a timeline!

Dinosaur Data

Find out how long a large Brachiosaur was!

Compare, measure

and

calculate!

Estimate the height of the Brachiosaur and compare this to everyday objects.

Student name: ______



ON THE MOVE

Footsteps

Let's investigate!

Measure from

Let's find out how far a Brachiosaur can step.

Firstly, measure your own walking step.

Now investigate a running stride.

My running stride:

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An adult Brachiosaur step would have been about 3 metres long.

Measure out the step of a Brachiosaur on the ground.

- ► How many cm is 3 metres? centimetres.
- ▶ How many of your steps fit into one *Brachiosaur* step?
- ▶ How much longer than your step is the *Brachiosaur* step?

My step Brachiosaur Step If the *Brachiosaur* step is 3m, estimate what their running stride might be:

Give a reason for your answer:





ON THE MOVE





Time Travel

Let's find out how long ago dinosaurs roamed the Earth!

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Task 1

Cut out the pi

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Task 2

If you have time you could try measuring out a timeline.

- ▶ Use base ten blocks or a ruler to make a line 230cm long
- ► At the start write a label 'First dinosaurs appeared'
- ▶ Now count 165 cm along the line and make a label saying 'Dinosaurs became extinct'
- ► Count 3 cm from the end of your timeline and make a label saying 'First man appears'
- ► Ask your teacher to photograph the timeline you have made.

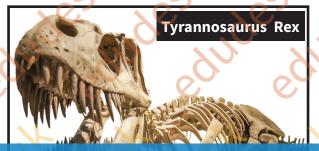
✓ If practical to do so, you could go out on to the beach with your class and measure out a timeline where 1 metre represents 1 million years.

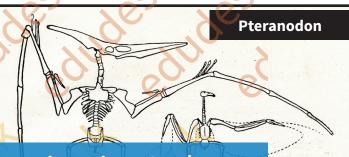
Q: If dinosaurs became extinct 230 million years ago, how long will this timeline be?





ON THE MOVE





Time Travel!

Cut out the arrange t

Ask if you nee

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Now stick them onto a long strip of paper.

1. Which skeletons have been around longest?

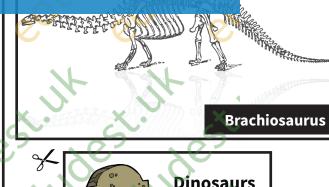
2. Why did humans never kill dinosaurs?

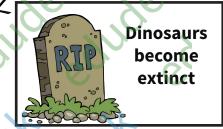
, L. Nest













DINOSAUR DATA!

DINOSAUR

Measuring a Brachiosaur!

Length

Comparing

Draw and cut out a double decker bus that is 10 squares long and 4 squares high.

▶ How many buses can you fit along the length of the *Brachiosaur* in

A large Brachiosaur was Teaching resources by Education Destination Ltd.

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rk out how tip to nose tip

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How many of your strides is this?

Using squared paper, imagine each square is one metre long.

Draw a picture of a *Brachiosaur* 26 squares long and 18 squares high.

- ▶ The Brachiosaur is _____buses long.
- ► The *Brachiosaur* is _____cars long.
- ► The *Brachiosaur* is the same length as _____beds.

3 Extra

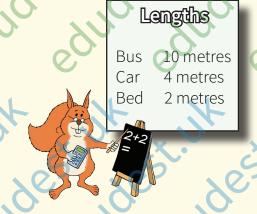


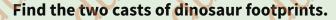
How many double decker buses high is the

Brachiosaur? _____

Brachiosaur is ______times taller than a

double decker bus.





One is from a Brachiosaur, the other is from an Iguanodon.

Measure and compare

How many of you

Working in a group, use one of the card templates to measure the area

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- ✓ Draw arounBook today with Education Destination and get full access to this and hundreds more quality resources
- ✓ Cut it out www.edudest.uk
- ✓ How many feet fit inside the lines without overlapping?

•	What else could	you use to compare the size?	? \	

Use squared paper to measure the area of the footprints.

► How many squares does one of your feet cover?

► How could you use this to estimate the number of squares the dinosaur footprint would cover?

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· C	<i>y</i> .	5.	5.	5.	5.
Ye	76	76	7	5	5



Write a sentence or two about the dinosaur footprint you have measured. Use the words *greater than*.



Front

These are the shapes of the front and back footprints of a *Brachiosaur*.



Which do you think the foot cast in the museum is?

Rack





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