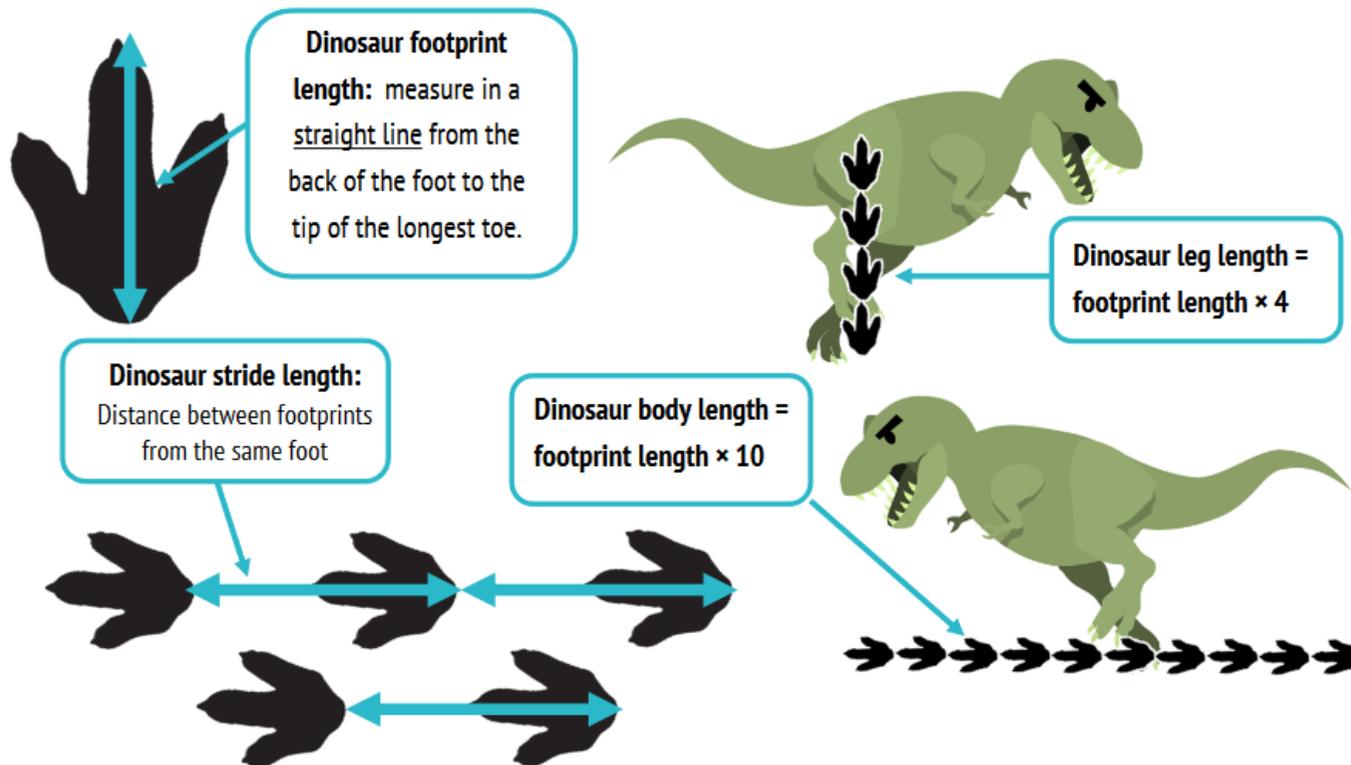


DINO DETECTIVES

We can use the fossil footprints of dinosaurs to work out some facts about the dinosaurs that made them - like how big they were and how fast they moved!



DINOSAUR BODY SIZE



DINO DETECTIVES

First you need to look at the footprint length and stride of the dinosaur.

Check page one to see what the stride is and how to measure it.



Dinosaur	Footprint shape	Footprint length	Stride length
Dino 1		3cm	12cm
Dino 2		7cm	30cm
Dino 3		20cm	50cm

Can you work out the actual leg and body lengths of each dinosaur? Use the data here and the diagram on page 1 to fill in the table below.

Dinosaur	Footprint length	Leg Length	Body length
Dino 1			
Dino 2			
Dino 3			

DINO DETECTIVES

Now that we know the size of the dinosaurs that left their footprints in the mud millions of years ago, we can work out a relative speed for the dinosaurs – to see if they were walking, trotting or running.



**Dinosaur relative speed =
stride length ÷ leg length**

Stride length ÷ leg length	Dinosaur speed
<2	walking
2-2.9	trotting
>2.9	running

Dinosaur	Stride length (cm)	Leg Length (cm)	Stride length ÷ leg length (cm)	Relative speed (walking, trotting or running)
Dino 1	12			
Dino 2	30			
Dino 3	50			