

# THIS PASSPORT

BELONGS TO

**TEACHER**



## Dinosaurs

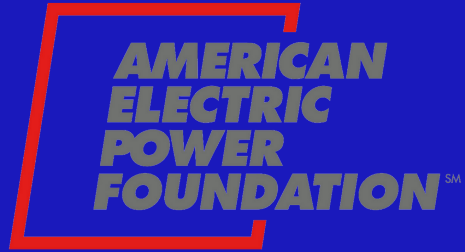
Science SOLs

K.7 a b	K.10	1.5	1.8 a	2.5	3.1 d
3.4	3.5	LS11	ES9 A		

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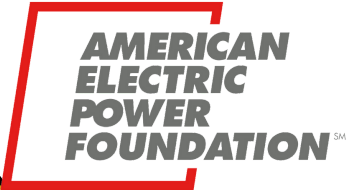


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# DINOSAURS



Today you are going to travel back in time  
and become a

## Paleontologist

Paleontology is the study of ancient life, from dinosaurs to prehistoric plants, mammals, fish, insects, fungi, and even microbes. Fossil evidence reveals how organisms changed over time and what our planet was like long ago.



The history of the Earth is broken into time spans marked by various events. These time spans are called Eras. There are 3 primary Eras of: Paleozoic Era, Mesozoic Era, and Cenozoic Era.



In the video we will travel back to the Mesozoic Era and talk about four time periods.. Can you unscramble the time periods below?

asctisri Triassic

tcerscoauc tlea Late Cretaceous

sacisjur Jurassic

ylare rscetcauoe Early Cretaceous

The world we live in is always changing. Scientists believe that the earth used to be one large land mass and one large ocean. This land mass was called

Pangea.

Color the pictures below....



When the earth was one large land mass, the expansive ocean allowed creatures more space to grow and evolve.

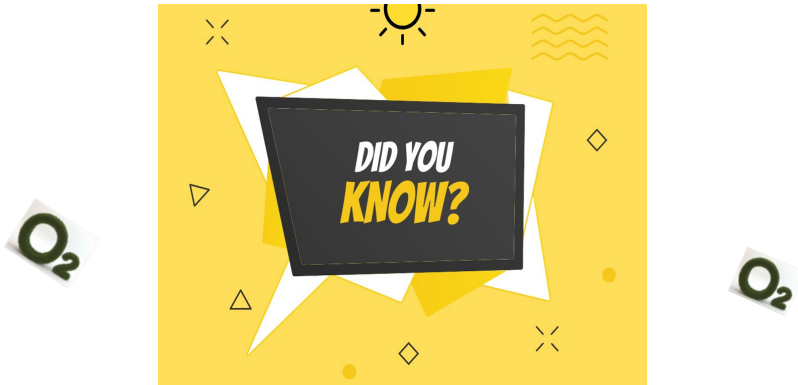


**FUN FACT:** The horseshoe crab has existed for 445 million years, making it the only living fossil in existence today.



Did you catch that.....

Fossils provide information about living systems that were on the Earth years ago.



Did you know that you can look at fossils and determine lots of things?

Scientists have discovered that there was more oxygen available in the atmosphere by looking at fossils.

What are 3 things you think we might learn from fossils?

1. What animals ate.
2. Where animals lived.
3. How long animals lived.

## TRIASSIC PERIOD

Share a fun fact you heard about the Herrerasaurus:

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**Meat Eater Dinosaurs** = \_\_\_\_\_

What is it called when fossils deteriorate over time because of wind, rain, rivers, chemicals and other natural variables? \_\_\_\_\_

## LATE JURASSIC PERIOD

Share a fun fact you heard about the Stegosaurus:

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The Jurassic period is when birds first started to evolve. This period also allowed for more diversity among dinosaurs.

## EARLY CRETACEOUS PERIOD

Share a fun fact you heard about the Tenontosaurus:

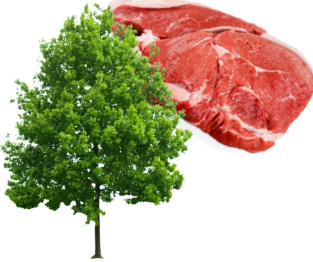
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An Iguanodon was one of the very first dinosaur to be discovered.



Animals are classified into groups based on many characteristics. One of the ways they are grouped is by what they eat. Animals are either Herbivores, Carnivores or Omnivores. Can you draw a line to match the animal group to what they eat?



Herbivores	<del>_____</del>	Both
Carnivores	<del>_____</del>	Meat
Omnivores	<del>_____</del>	Plants

Do you remember what she said....

Lex said that for the most part, which means there are some exceptions, dinosaurs that walk on two legs eat meat and ones that walk on all four eat plants.

In the food chain animals are either **predators** or they are **prey**.

A predator is one that lives mostly by killing and eating other animals.

Prey is an animal that is hunted and killed by another animal for food.

Can you write a sentence about an animal that would be a predator and one that is prey?

Share a fun fact you heard about the Deinonychus:

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## THE LATE CRETACEOUS PERIOD

The Late Cretaceous Period is when Scientists believe dinosaurs became extinct.

Share a fun fact you heard about the Parasaurolophus:

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## TRICERATOPS & T-REX FUN FACTS:

Triceratops had strong horns? True or False

Triceratops had 800 teeth.

T-Rex was a fast runner? True or False

T-Rex weighed one ton? True or False

T-Rex had teeth the size of bannanas.

T-Rex had the strongest bite force of any animal ever? True or False

W	B	Q	Z	X	N	C	D	E	S	H
N	I	M	A	R	C	Z	R	R	W	U
W	V	N	O	E	A	E	A	O	P	Q
Y	B	H	G	P	R	T	G	V	J	J
K	L	E	G	S	N	A	O	I	Z	X
K	T	S	F	T	I	L	N	B	I	O
M	C	M	H	L	V	P	F	R	Z	V
U	M	E	W	S	O	F	L	E	S	S
D	I	B	N	L	R	O	Y	H	T	C
S	I	H	G	G	E	P	H	G	Q	P

CARNIVORE

HERBIVORE

WINGS

EGG

NECK

PLATE

LEGS

DRAGONFLY

HORN



All living things have a need for adequate food, water, shelter, air, and space to survive. When these things are no longer available, the species will not exist. When this occurs, it is called

Extinction.

Dinosaurs no longer exist so they are

Extinct.

Some scientists believe that a meteor hit the earth and caused the Dinosaurs to become extinct.

This event is known as the K/T or KPG Event. During this event it is believed that a meteor hit the earth.

The crater believed to be from the impact was discovered in 1991. Can you draw on the map where the crater was found?



Can you list some outcomes from the impact that made it impossible for dinosaurs to continue living.

Area for homes for animals

Less dinosaurs to reproduce

Climate change

Food for meat eaters

Plant growth/ food for plant eaters

Put your thinking caps on.....

Can you answer yes or no if these other animals are extinct?

Passenger Pigeon

yes or  no

Gorilla

yes or  no

Rhino

yes or  no

Tasmanian Tiger

yes or  no

Dodo Bird

yes or  no

Orangutan

yes or  no

Woolly Mammoth

yes or  no

Turtle

yes or  no

Elephant

yes or  no

Sabre-tooth cat

yes or  no

Lex Shared with us that her favorite dinosaur is a Sinosauropteryx.

Who is your favorite dinosaur? Draw a picture and write a few sentences about something you know or learned about that dinosaur.