

# Knowledge Organiser Focus:

# Dinosaur Detectives

## I should already know:

I can use a website.

I can use vocabulary such as old, new, past and present.

## I will learn:

### History

I know of changes that have happened since the past.

### Art

I can cut, roll and coil materials.

### Design Technology

I can make a product which moves.

### Computing

I know how to use technology safely.

I know who to talk to if I find something inappropriate online.

### PSHE

I know how to stretch my learning.

## This will help in the future:

-I know what certain objects from the past might have been used for.

-I know where to go for help if I am concerned.

## Key Words

fossils	Fossils are the remains or traces of plants and animals that lived long ago. Fossils give scientists clues about the past.
dlnosaurs	A group of extinct reptiles that lived a very long time ago. Dinosaurs were the main animals on Earth for more than 150 million years.
herbivore	Animals that only eat plants are herbivores.
carnivore	Animals that mostly eat other animals (meat) are carnivores.
omnivore	Animals that eat both plants and other animals are omnivores.
coil	To coil means to wind into circles.
lever	A lever can be described as a long body with a fulcrum (the point which the lever pivots) along its length.
hinge	A jointed piece on which a door, gate, or lids turns or swings.

### Herbivores

Most dinosaurs were herbivores. Their teeth were often blunt and flat to help them crush and grind down plants. Diplodocus were herbivore and mostly ate leaves.



### Carnivores

Some dinosaurs were carnivores. Carnivores had teeth that were sharp like knives so that they could eat through meat. Tyrannosaurus Rex were carnivores.



### Omnivores

Some dinosaurs were omnivores. Omnivores often had a beak and no teeth for cracking eggs and picking up plants. Oviraptors were omnivores.

### Thinking Deeper Challenge

Design your own product that moves. Which mechanism did you use? Why did you choose this mechanism?



### Further Reading

- Dinosaur Bones – Bob Barner.
- Dinosaur A to Z – Dustin Growick.
- First Facts: Dinosaurs – DK.
- Atlas of Dinosaur Adventures.

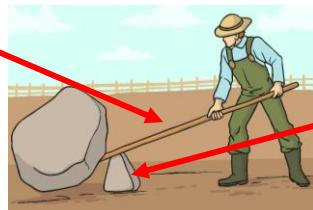
## Design and Technology

Mechanisms are devices which alter the direction or force of a machine.

Put simply, mechanisms are the part that makes something move.

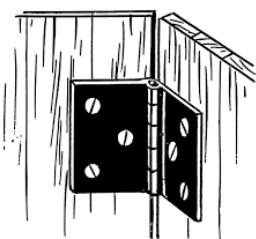
### Lever

A bar which turns around a point/pivot.



### Pivot

A point about which a lever turns.



### Hinges

A hinge allows movement between two linked objects. Doors, gates and lids all use hinges – they allow them to open and close.

## Computing

A search engine is a website that allows you to find information about anything you want.



To use a search engine, you need to first open the Internet on your computer or tablet using a web browser. Here are some examples of the web browser apps:



The Internet is full of wonderful things and people all over the world can put things on the Internet. Therefore, it is very important that we stay safe online. To make your searches safe, you can turn on **Safe Search** filters on your web browser or we can use child-friendly sites such as [safesearchkids.com](http://safesearchkids.com).

**SAFE SEARCH KIDS**

## History

The term 'dinosaur' refers to a special kind of creature that lived on land during the Triassic, Jurassic or Cretaceous period many millions of years ago.

The word dinosaur actually means "terrible lizard" in Greek. Dinosaurs lived in every continent on Earth and more than 700 different species have been discovered worldwide.

### Brachiosaurus

The heaviest and tallest dinosaur was Brachiosaurus. It weighed 80 tonnes which is around the same weight as 17 African Elephants.



Brachiosaurus was 16m tall and 26m long.



### Tyrannosaurus Rex

The most fierce dinosaur was the Tyrannosaurus Rex. The bite of a T-Rex could easily crush through bone and was eight times more powerful than a lions bite!



### Fossils

Fossils help us understand what the dinosaurs were like. Information could be collected from fossilised bones, footprints, eggs feathers and even dinosaur poop!

