

Dinosaur Planet Summer 1

Key Questions:

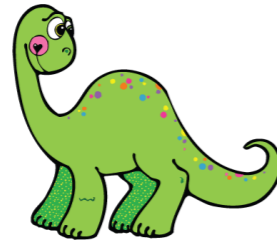
What is a dinosaur?
 How do we know about them?
 How is Mary Anning significant?
 What did Mary Anning discover?
 How can you debug an algorithm?
 How can you make a picture move?
 Who was Beethoven and what instruments did he play?

Science:

Animals including Humans

Key Questions:

How can we sort animals?
 What is a vertebrate?
 What is an invertebrate?
 How can an animal's environment impact on their survival?
 Do animals have different types of skeletons?
 When did dinosaurs inhabit our planet?



Key Facts:

Dinosaurs were reptiles that lived millions of years before humans lived on the planet. **They are now extinct**, but their remains can be found in museums.

Dinosaurs walked the earth for over 165 million years. They lived during a period of time known as the Mesozoic Era, or Age of Reptiles. The word dinosaur means terrifying lizard. **There were carnivore, herbivore and omnivore dinosaurs.** They had different features and characteristics such as horns, spikes, and plates. The reptiles that developed feathers and the ability to fly weren't called dinosaurs but pterosaurs. The colour of all dinosaurs is unknown because no one was alive at that time in history.

There are currently over 330 described dinosaur species and this number is growing.

Around 65 million years ago at the end of the Cretaceous Period they became extinct. During this time there was a great deal of volcanic activity and many earthquakes. One theory is that a meteor hit the earth and the dust stopped things from growing so the dinosaurs had nothing to eat.

Invertebrates do not have a skeleton.

Computing:

Writing down and debugging algorithms.

Key Questions:

How can you debug an algorithm?

Key Facts:

You can write down algorithms using symbols.
 Fixing an algorithm when it is incorrect is called debugging.
 A computer programmer will debug algorithms as part of their job.

Music:

Composition of music/First Thing Music

Key Questions:

What is a composer?
 What instruments did Beethoven play?

Key facts:

What instruments belong to the percussion family.
 How to use different percussion instruments to make music.
 Beethoven took piano and violin lessons from his father and other local musicians and later was given viola lessons.
 Beethoven wrote 16 string quartets.
 His music was written for mainly piano and instruments in the wind family.



DT:

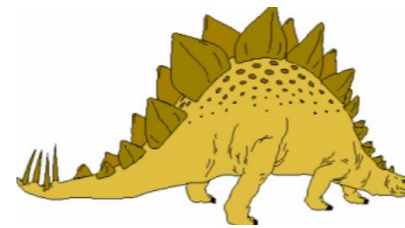
Moving Dinosaur Pictures

Key Questions:

How can we make a picture move?

Key Facts:

The mechanisms of "slider", "lever" and "wheel" can make things move.
 A lever needs a pivot.
 A pivot can be moved to change the way the lever moves.



PE:

Games (Football) / Skipping

Key Questions:

How do we hold our rope – when skipping and when not skipping?
 What do we use to move and stop the ball?

Key Facts:

We hold our rope in a skipping "smile" before we start.
 The handles point down with the rope coming out the top.
 To be successful I keep my eye on the ball.
 To move the ball I use the inside of my foot.
 To stop the ball I put my foot on top of the ball.
 I don't touch the ball with my hands when I'm playing football.

PHSE:

Learning Powers

Key Questions:

What learning powers did Mary Anning use?

Key Facts:

It is important to have curiosity if we want to learn.
 We should not give up even when things become difficult.
 Using our imagination can help us to solve problems.



History:

Dinosaur Planet

Key Questions:

What did Mary Anning discover?
 Why was she significant?

Key Facts:

Mary Anning lived in Dorset in the South of England. She lived from 1799 – 1847 and so she was living at the same time as Queen Victoria and Florence Nightingale. She was a **fossil collector, dealer, and palaeontologist** who became known around the world for important finds around Lyme Regis. Mary Anning was eventually credited with the first discovery of the plesiosaur. Although her family was very poor, she learned to read and write at a Sunday school. *When Mary Anning was just a year old, a severe thunderstorm began, so the story goes, and the woman holding Anning was struck by lightning and killed, but little Mary Anning survived.* **The word dinosaur means terrifying lizard. This name was invented by Sir Richard Owen in 1842.**



Key Vocabulary:

Dinosaur – a reptile that lived thousands of years ago meaning terrifying lizard.
 Inhabit – a place where someone/something lives.
 Extinct – no longer any living on the planet.
 Museum – building where objects of historical, scientific, artistic, or cultural interest are stored.
 Remains – the bones of a dinosaur, what is left after a dinosaur has died.
 Fossil – the remains or impression of a prehistoric plant or animal embedded in rock.
 Archaeologist – a person who studies human history.
 Palaeontologist – a scientist who studies fossils.
 Herbivore – plant eaters
 Carnivore – meat-eaters
 Omnivore – meat and plant eaters.
 Algorithm – set of rules to be followed in problem-solving operations, especially by a computer.
 Syllable – a part of a word that contains a single vowel sound and that is said together.
 Composer – a person who writes music.
 Percussion – musical instruments played by striking with the hand or with a stick or beater, or by shaking.
 Pivot – the central point which a mechanism turns on.
 Slider – lever that is moved horizontally or vertically to control or move something
 Lever – a bar resting on a pivot, used to move a heavy or firmly fixed load with one end when pressure is applied to the other.