

# Morning Activities

## Science

### Evolution

#### Year 6

# Ferns

Look at the modern photograph of a fern and the fossil which shows a pre historic plant.



What do you notice (observe) about both photographs?

Compare them. What can you say about ferns, using these photographs?

**Challenge:** Compare a mammoth to a modern elephant. How has this animal adapted (evolved) over time to cope with its environment?

# Animal Groups

Look at this animal grouping: cats.

In no more than 50 words describe the 'cat' group of animals, using these photographs to help you.



**Starter:**  
Choose one of these 'cats' and describe its appearance (how it looks).

## Challenge:

Split these cats into groups of your own choice.  
How would you split/group these cats? Explain how you have organised the cats.

# Characteristics of Offspring

Babies of any species are usually very similar to their parents.

Some animals mate with different breeds though.

When dogs mate with different breeds of dog, they make new types of dogs called 'crossbreeds.'

**Match two dogs together to create crossbreed A, B or C.**



greyhound



poodle



beagle



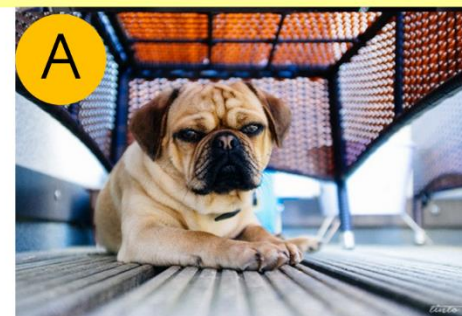
labrador



deerhound



pug



A

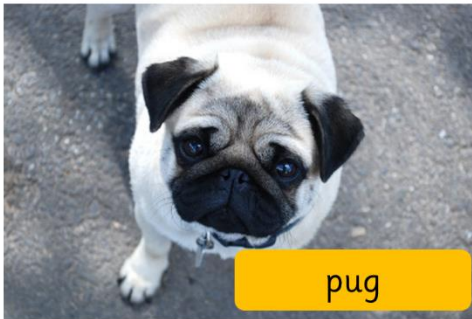


B



C

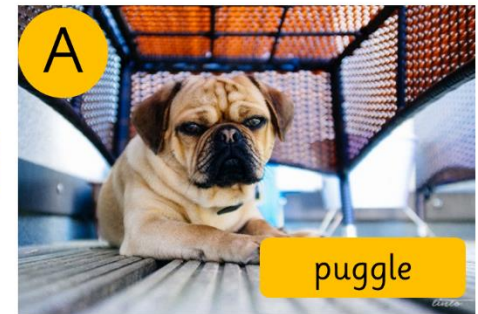
# Characteristics of Offspring - Answers



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# Creative Thinking – The Arctic Animal

**Design an animal that can:**

- Withstand extremely cold temperatures (10°C to -50 °C).
- Camouflage in the environment.
- Hunt for its own fish and meat.
- Defend itself against larger predators e.g. Polar bears.
- Live in an ice hole.

**Draw a picture of your animal, explaining or showing (using labels) that it can cope with each of the descriptions listed above.**



**Starter:**

Think about Polar bears.

Write 3 sentences about why you think Polar bears are perfect for living in The Arctic.

# Mary Anning



Mary Anning

- Fossil hunter.
- Taught herself everything she knew.
- Very poor family (sold the fossils she found).
- Lived on the coast where lots of fossils could be dug and washed ashore.
- 1811 discovered a complete crocodile skeleton, later discovered dinosaur skeletons.

Dear Father,

November 1821

*I am writing to tell you that I have arrived safely on the beautiful south coast. The journey was long and tiring but a long and comfortable night's sleep means that I have nearly forgotten about this.*

*This morning I managed to spend some time with the spectacular Miss Mary Anning. She had remembered that I was coming to visit her and had arranged tea and cake for my arrival. We barely touched the food and drink however, as there was so much to talk about...*

You are a scientist visiting Mary Anning.

**Think of a question that you might have asked her.  
Tell your father what the answer to your question was.**

**Decide what you will say to your scientist friends about  
Mary Anning when you return home to London.**

**Starter:** Imagine you are a fossil hunter going on a day of hunting. What will you pack in your bag?