

Can you name these makes of car? Which are electric? Which one is named after a scientist?



Can you name these car makes? Which are electric? Which one is named after a scientist?



Volvo XC40
- electric



BMW i3 -
electric

Kia SUV -
electric



Volkswagon
- electric



Tesla -
electric

Hyundai -
electric



Monday 22nd November

LO: Retrieval

Read the extract together.

1. Use a dictionary to look up 3 words you are unsure of.
2. Answer the following retrieval questions

1. What does the word 'electricus' mean?

2. What key discoveries did the following scientists make?

- William Gilbert
- Alessandro Volta
- Michael Faraday
- Thomas Edison
- Lewis Latimer

3. Did Thomas Edison invent the light bulb?

4. Name two modern appliances that use electricity and explain why they are useful.

Answers

1. What does the word 'electricus' mean? **Electricus was the name given to static electricity by Gilbert (it comes from the Greek word for amber - elektron)**
2. What key discoveries did the following scientists make?
 - William Gilbert **distinguished between magnetism and static electricity**
 - Alessandro Volta **created the first battery using the voltaic pile**
 - Michael Faraday **invented the first electrical motor**
 - Thomas Edison - **redesigned the lightbulb**
 - Lewis Latimer **invented a filament that would stay lit for longer**
3. Did Thomas Edison invent the light bulb? **No, the lightbulb had already been invented. Edison improved the design.**
4. Name two modern appliances that use electricity and explain why they are useful.
Various answers

Tuesday 23rd November

LO: Comprehend text

Retrieval

1. How are the AC and DC currents different?

Provide reasoned justifications and evidence

2. The Voltaic Pile ensured a steady electric current. Why did this lead to the wider use of electricity?
3. "The Ancient Greeks and Ancient Egyptians believed the same things about electricity." Is this statement true or false? Explain why with examples to support your answer?

Tuesday 23rd November

LO: Comprehend text

Retrieval

1. How are the AC and DC currents different?

AC current can be increased and decreased, DC can't

AC current can travel long distances while the DC current needs to be closer to the building it supplies

AC current needs transformers which the DC current doesn't as it is steady

AC currents are higher in voltage than DC currents

Provide reasoned justifications and evidence

2. The Voltaic Pile ensured a steady electric current. Why did this lead to the wider use of electricity? **Steady electric current could be used to power appliances. An unsteady current would mean that the appliance would go on and off.**

3. "The Ancient Greeks and Ancient Egyptians believed the same things about electricity." Is this statement true or false? Explain why with examples to support your answer?

It is correct because both knew about electric fish and shocks that they could give.

It is incorrect because the Ancient Greeks knew about static electricity (although they believed it was magnetism).

Thursday 25th November

LO: Comprehend texts

Mountain Getaway

3A

When Darren Watson Brown found out about the weekend trip to the Aropak Mountains, he could scarcely breathe. Darren had good reason to be excited. He'd never seen mountains before, not once in his entire life. He was a born-and-bred city boy. He knew everything about concrete, steel, and glass, but markedly less about rolling hills, fields, and pastoral life in the mountains.

Darren's heart pounded like a piston for the entirety of the ten-hour drive to the rental cabin. This would be a wholly new experience for him—something radically removed from his urban existence—and Darren could hardly wait.

When the Brown family finally arrived at the cabin, Darren's parents were thoroughly exhausted and ready for a well-earned nap. But Darren wouldn't hear of it; he was far too keyed-up to sleep. Instead, he wanted

to hike down to the nearby lake. His bleary-eyed father reluctantly agreed to accompany him.

At the lake, Darren and his father were greeted by a vista stunning in its beauty and simplicity. The lake was pristine, its placid surface disturbed only by the motions of a shaggy brown bear that was lapping at the waters on its far side.

"I'm so glad we came!" exclaimed Darren, and his father had to agree.



Thursday 25th November

LO: Comprehend texts

Vocabulary

Pristine: clean and fresh as if new; spotless

Placid: calm and peaceful, with little movement or activity

Vista: a pleasing view.

Pastoral: used for the keeping or grazing of sheep or cattle
/ linked to being in the countryside

Piston: part of an engine that moves
up and down



Thursday 25th November

LO: Comprehend texts

Questions

1. Why does Darren find the family getaway to the mountains exciting?
2. Why is Darren's father reluctant to leave the cabin?
3. Darren doesn't know much about pastoral life. This means he doesn't know much about life
 - a) in heavily-populated areas
 - b) out in the countryside
 - c) in barren deserts
4. When does Darren's father's mood change?
5. How do you think Darren feels about experiencing new things? Use evidence from the text to support your answer.

Thursday 25th November

LO: Comprehend texts

Answers

1. Why does Darren find the family getaway to the mountains exciting? He has never seen mountains before and it is a very different from his life in the city

2. Why is Darren's father reluctant to leave the cabin? He is very tired (exhausted) after the long journey

3. Darren doesn't know much about pastoral life. This means he doesn't know much about life

b) out in the countryside

4. When and why does Darren's father's mood change?

After they have visited the lake and he realises how beautiful it is

5. How do you think Darren feels about experiencing new things?

Use evidence from the text to support your answer.

I think he thinks its really important to experience new things as it is exciting. He wanted to go to the lake straight away and was glad they had came.