

Alice Wilson

Worksheet

Combined Science - Chemistry - Key Stage 4

C9 - Chemistry of the Atmosphere

Miss Fenner



True or **false**: Alice Wilson never enjoyed outdoor activities as a child.

TRUE

FALSE



True or **false**: her father was a university professor and encouraged Alice to be scholarly.

TRUE

FALSE



True or **false**: Wilson's first scientific job was as an expert at the Museum of Mineralogy.

TRUE

FALSE



True or **false**: Wilson was forbidden from working at remote sites with male colleagues.

TRUE

FALSE



True or **false**: Wilson worked for 50 years at a site that was easily accessible from her home.

TRUE

FALSE



True or **false**: fossils can provide us with information about past climates on Earth.

TRUE

FALSE



True or **false**: fossils can provide us with information about the Earth's early atmosphere.

TRUE

FALSE



True or **false**: fossils add to photographic information to help us piece together the Earth's early climate.

TRUE

FALSE



Independent Practice

1. What is a fossil?
2. State 3 pieces of information fossils can provide us with.
3. Why can't we use diary entries and photographic evidence to support the information provided by fossils?



Independent Practice

1. A fossil is a preserved remain or trace of a dead organism. For example bones and shells.
2. 3 pieces of information fossils can provide us with are, previous organisms that were alive, previous climates and previous atmospheric conditions
3. We use diary entries and photographic evidence to support the information provided by fossils because no humans were around at that time.



Which 2 planets were used to make predictions about the composition of the Earth's early atmosphere?

Venus and Mars



What are the two reasons for Venus and Mars being used instead of other planets?

1. They are a similar size to Earth

2. They formed at a similar time to Earth



What is an ice core?

A piece of ice that has drilled
(cored) out of an iceberg



**Ice cores can provide information
about the Earth's atmosphere from
how long ago?**

1.5 billion years



Independent task

2 truths, 1 lie

Venus and Mars can be used to predict the composition of the Earth's early atmosphere.

These planets are used as they contain a similar volume of water as Earth.

This method only allows predictions about the Earth's atmosphere to be made.

Ice cores can be used to predict the atmosphere present when the Earth first formed.

Ice cores are created by drilling (coring) out cylinders of ice from icebergs.

This method can reveal the gases present in the air when the ice formed.

1. Write out the truths
2. Identify and correct the lie



Independent task

2 truths, 1 lie

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See you next time.

