

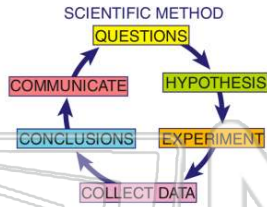


Name _____ Class _____ Date _____

1 When the scientific method is applied in geology, a geologist can **never repeat** any of the steps or the results will be inaccurate.

True or false?

- A true
- B false



3 A team of geologists concluded that the trilobite fossil they discovered was one that had never been known or studied before. They **published an article** in an important scientific magazine to share their discovery with other scientists. **No one will ever have to study this trilobite again.**

2 A geologist discovered only one bone from a dinosaur. An early hypothesis was that it was a leg bone of a very small, land-dwelling dinosaur. **What is a hypothesis?**

- A a statement or conclusion that can be tested
- B an educated guess
- C a possible explanation based on knowledge about the subject
- D all of the above



4 Below is an image of an insect preserved in a piece of fossilized tree sap, called **amber**.

Which of the following is a **reasonable hypothesis** about this specimen?

- A It is not too old since the insect is so small.
- B The insect contains blood that can be used to study dinosaurs.



5

PREVIEW

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6 What is the metric system?

- A meter
- B kilogram
- C degrees Kelvin
- D cubic inch



- B so that all scientists can compare their studies and results
- C so that all scientific results can easily be divided by the number 10
- D so the oldest form of measurement could be used

9 The **SI or metric system** is a system of measuring length, mass, temperature, and volume based on **which number?**

- A 10
- B 4
- C 5
- D 2



10 Water boils at 212° Fahrenheit.

What is the boiling temperature of water in degrees Celsius?

- A 0°C
- B 32°C
- C 100°C
- D 120°C



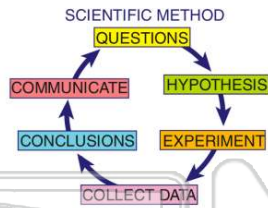


ANSWER KEY

When the scientific method is applied in geology, a geologist can **never repeat** any of the steps or the results will be inaccurate.

True or false?

- A true
- B false



(b)

A geologist discovered only one bone from a dinosaur. An early hypothesis was that it was a leg bone of a very small, land-dwelling dinosaur. **What is a hypothesis?**

- A a statement or conclusion that can be tested
- B an educated guess
- C a possible explanation based on knowledge about the subject
- D all of the above



(d)

A team of geologists concluded that the trilobite fossil they discovered was one that had never been known or studied before. They **published an article** in an important scientific magazine to share their discovery with other scientists. **No one will ever have to study this trilobite again.**

- A true
- B false



(b)

Below is an image of an insect preserved in a piece of fossilized tree sap, called **amber**.

Which of the following is a **reasonable hypothesis** about this specimen?

- A It is not too old since the insect is so small.
- B The insect contains blood that can be used to clone a dinosaur.
- C Modern flies are similar to the fly in the amber.



(c)



PREVIEW

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- A meter
- B kilogram
- C degrees Kelvin
- D cubic inch



- C so that all scientific results can easily be divided by the number 10
- D so the oldest form of measurement could be used

The **SI** or **metric system** is a system of measuring length, mass, temperature, and volume based on **which number?**

- A 10
- B 4
- C 5
- D 2



(a)

Water boils at 212° Fahrenheit.

What is the boiling temperature of water in degrees Celsius?

- A 0°C
- B 32°C
- C 100°C
- D 120°C



(c)