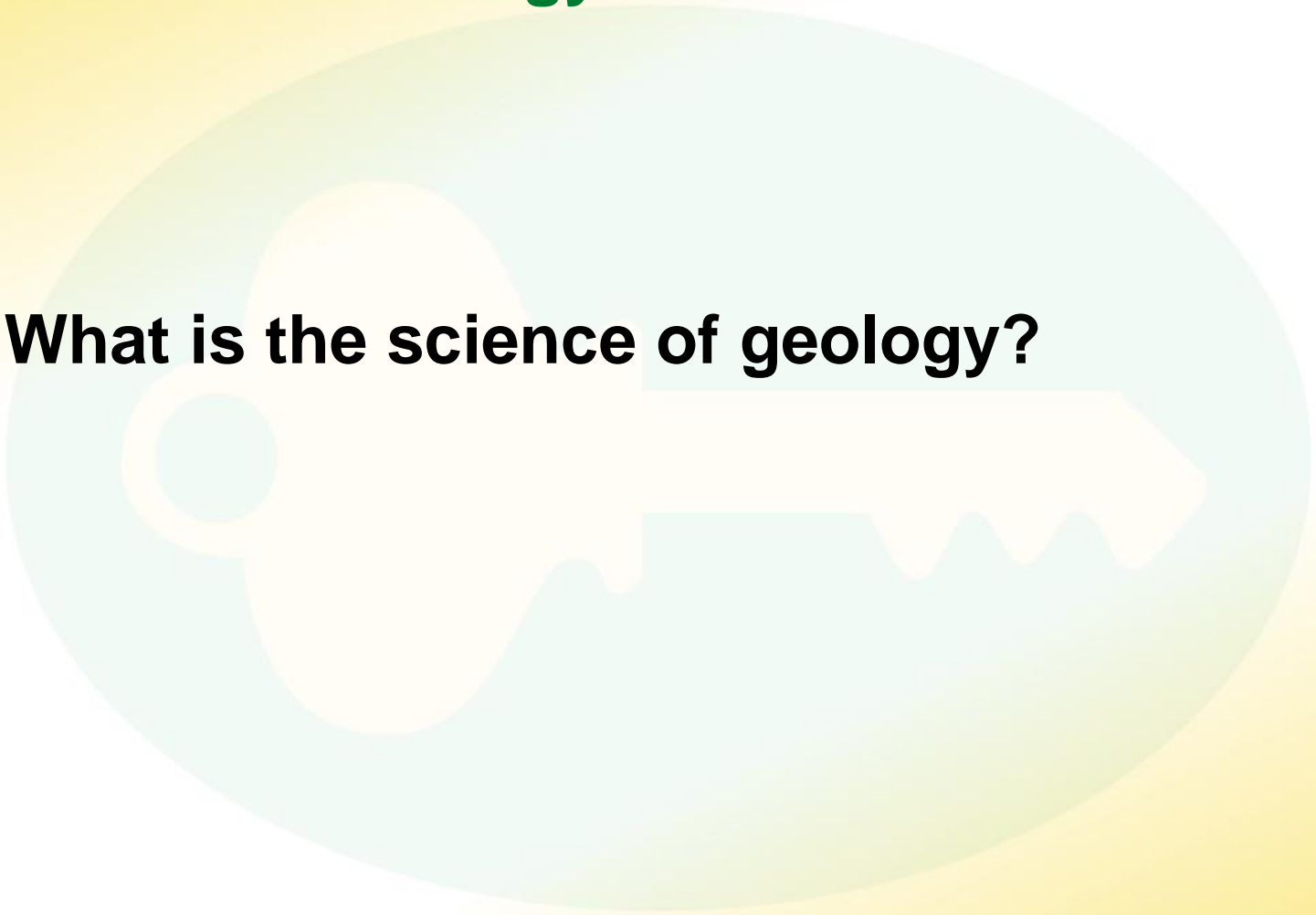


The Science of Geology



What is the science of geology?



The Science of Geology

Geologists are –

- Constructive forces-
- Destructive forces-

The Science of Geology

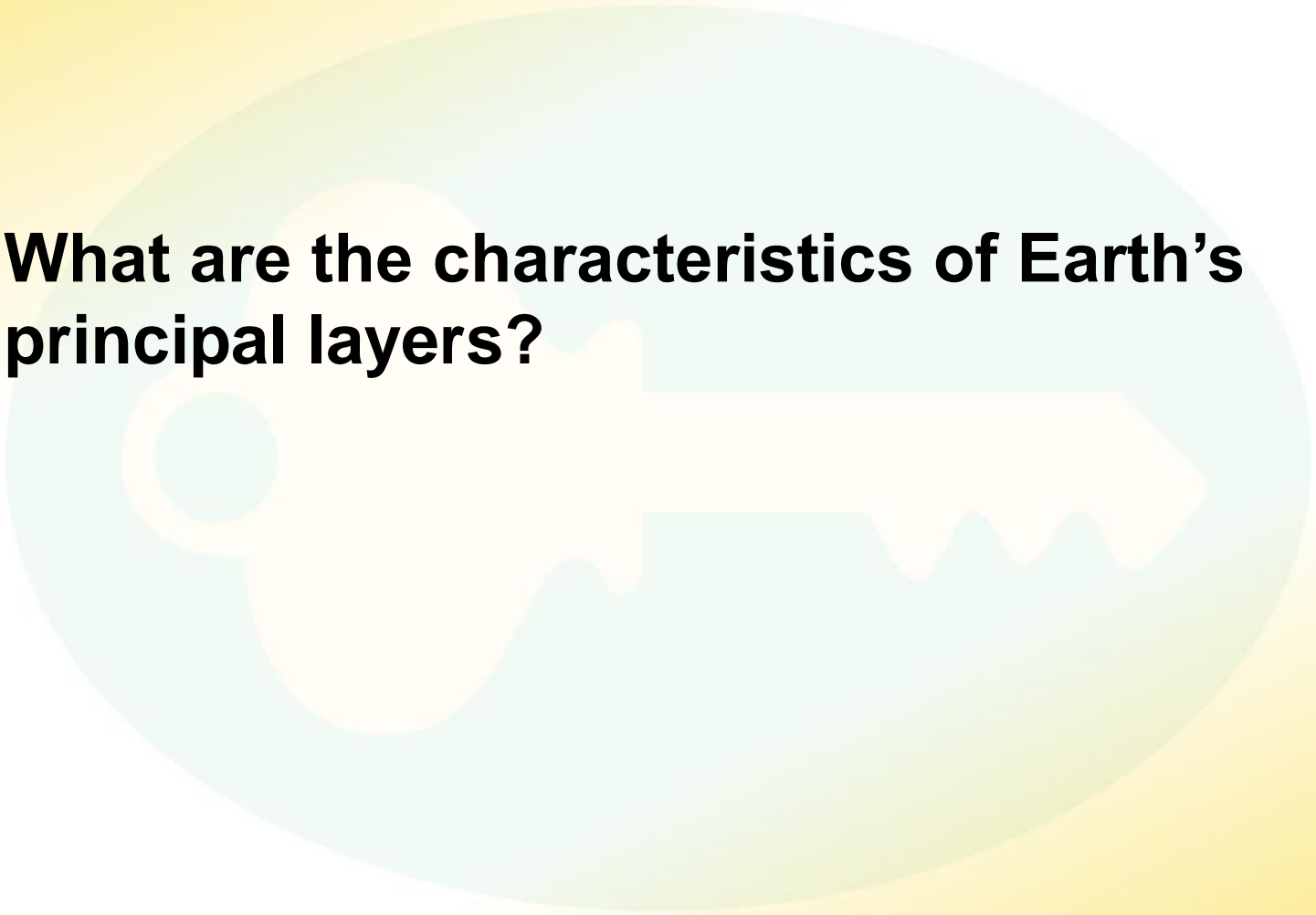
James Hutton developed the principle of uniformitarianism. **Uniformitarianism** is-

- Ancient rocks -
- Features such as -

A Cross Section of Earth



What are the characteristics of Earth's principal layers?



A Cross Section of Earth

The Crust

The rocky outer layer of Earth is -

Much of the crust is -

A Cross Section of Earth

There are two different types of crust.

Continental crust-

- Continental crust -
- It is thickest -

A Cross Section of Earth

Oceanic crust is -

- Oceanic crust is -
- Oceanic crust is-

A Cross Section of Earth

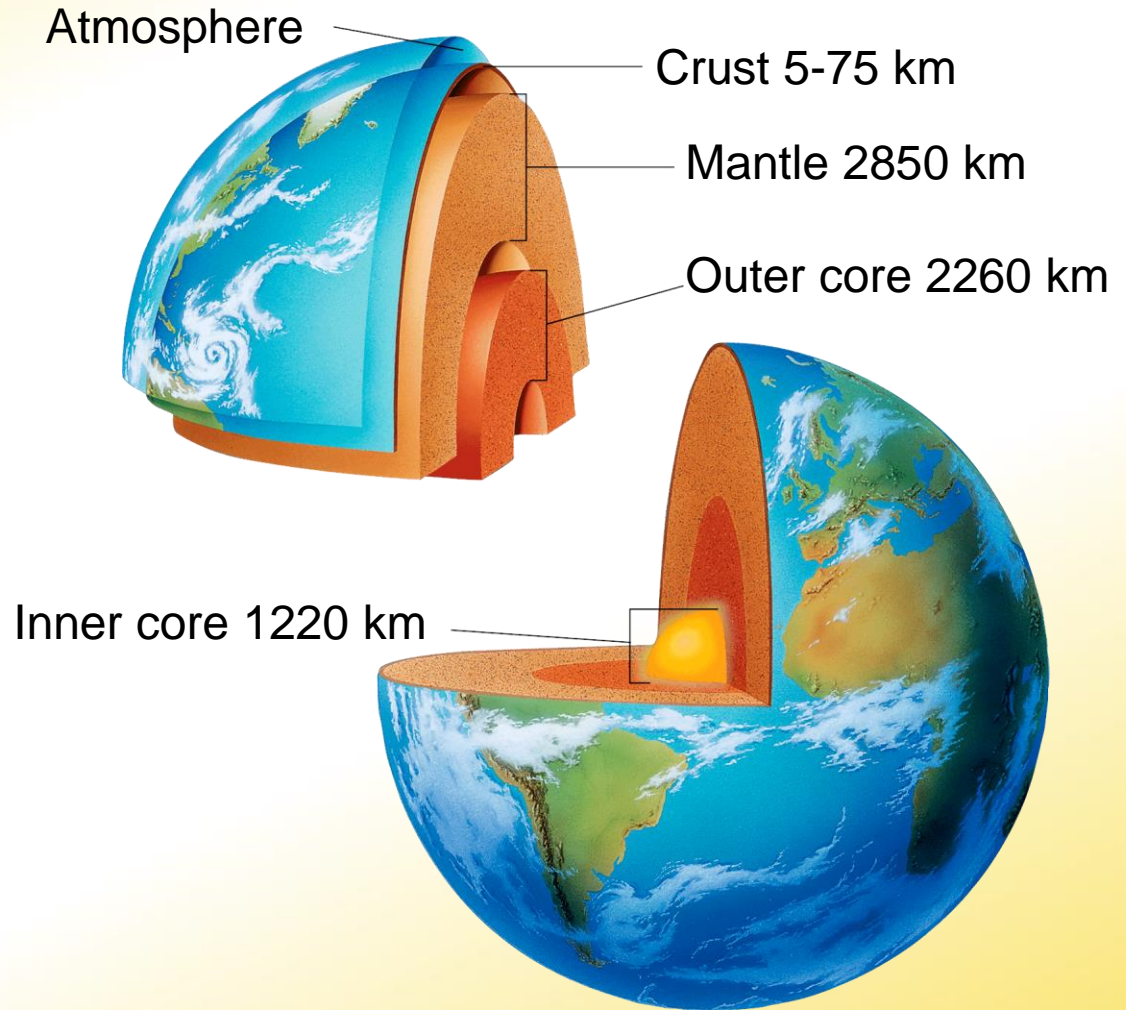
The Mantle

Beneath the crust is -

- The mantle extends -
- Pressure and temperature -
- The mantle is -

A Cross Section of Earth

Earth's rocky crust is -



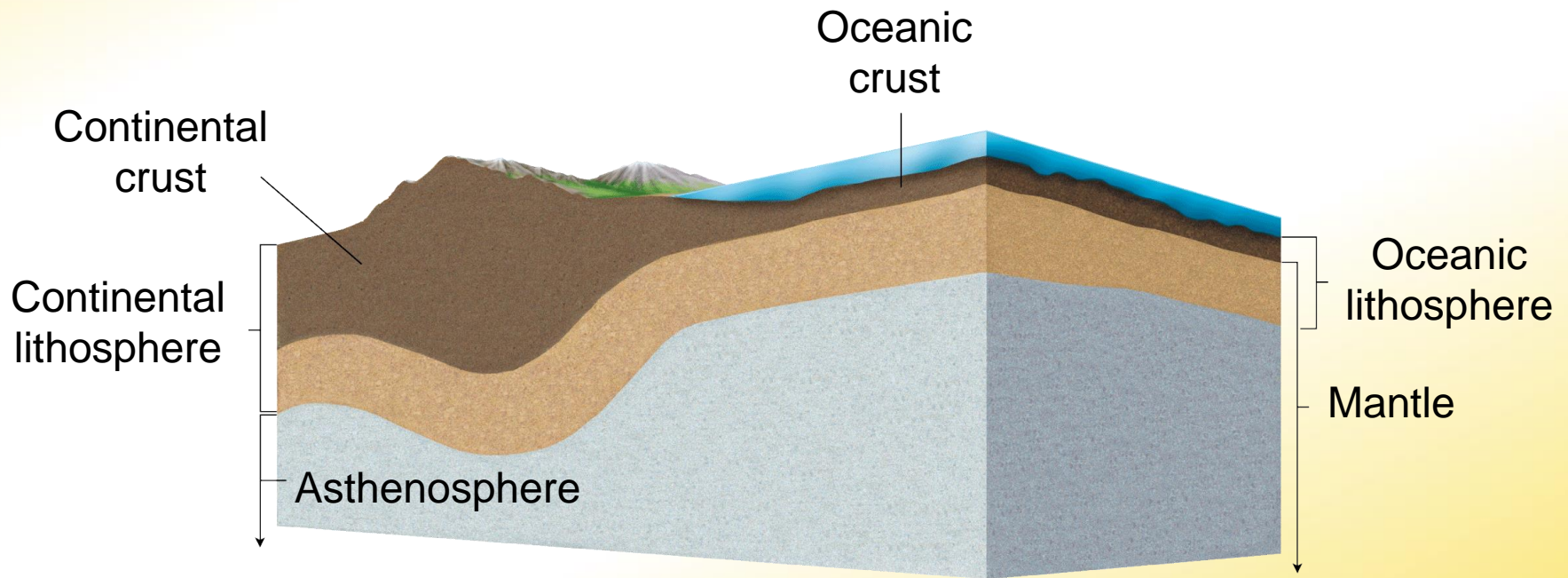
A Cross Section of Earth

Geologists divide the mantle into three layers.

- The **lithosphere** is -
- The **asthenosphere** is -
- The stronger lower -

A Cross Section of Earth

The structure of Earth's upper layers is -



A Cross Section of Earth

The Core

Beneath the mantle is -

- Scientists think that the core is -
- Within the -
- At Earth's center-

A Cross Section of Earth

The core is divided into two parts—

- In the outer core-
 - In the inner core-.

Assessment Questions

1. What is geology?
 - a. the study of the solar system
 - b. the study of minerals
 - c. the study of water
 - d. the study of planet Earth

Assessment Questions

2. The thick layer of hot, dense rock beneath Earth's surface is the
- crust.
 - mantle.
 - lithosphere.
 - core.