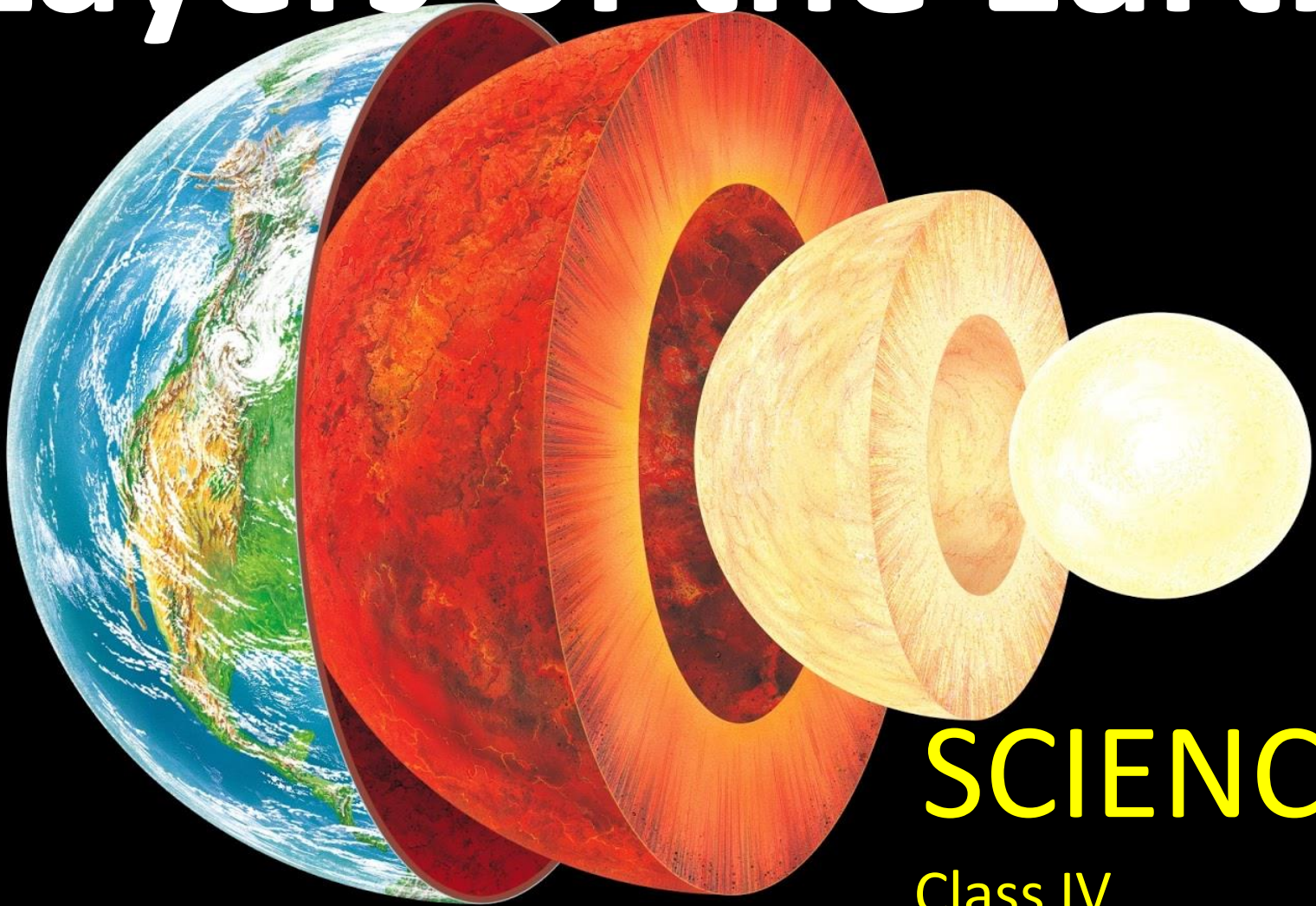


Layers of the Earth



SCIENCE

Class IV

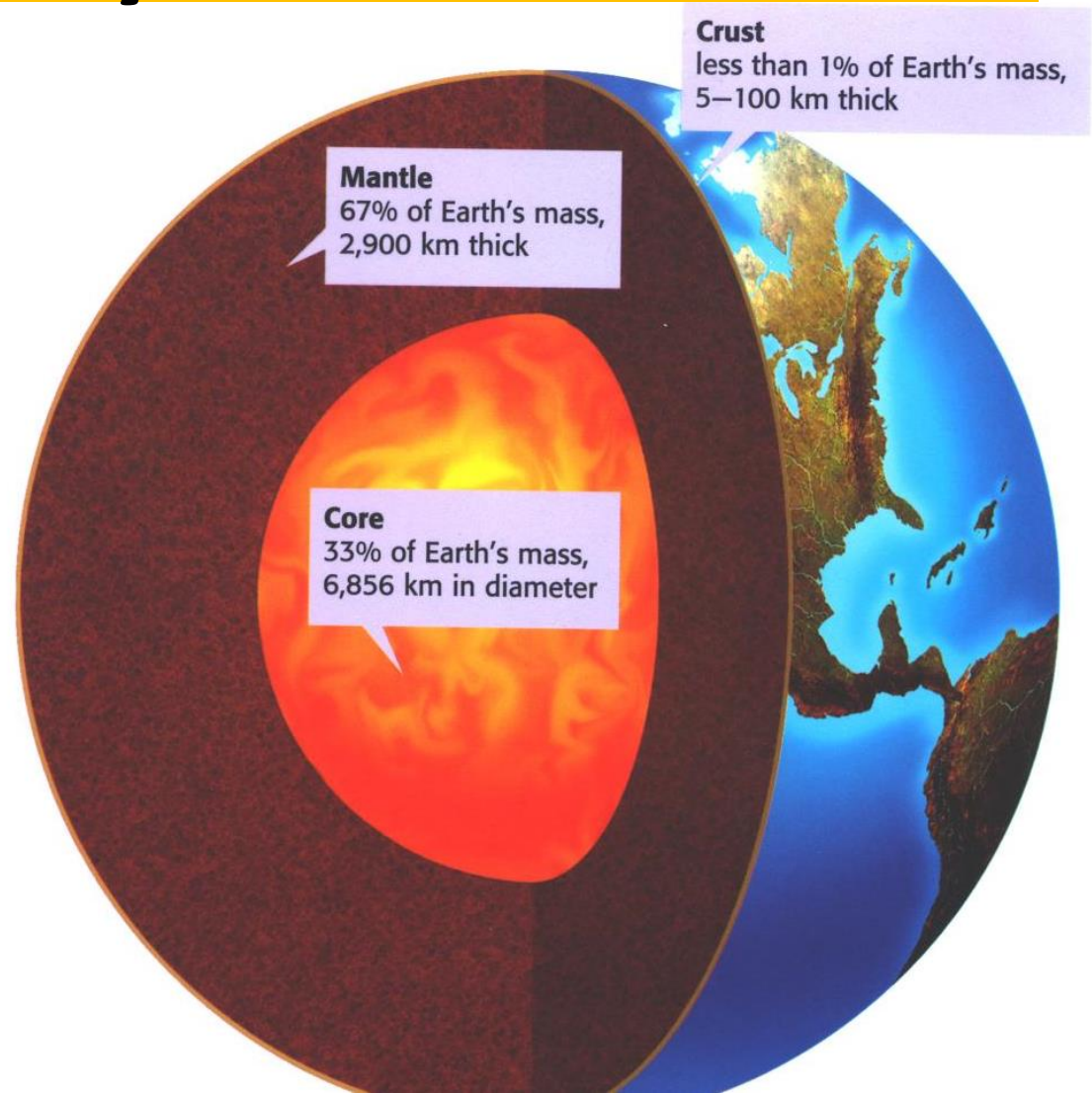
Academic Session 2021-2022

The Earth is made up of 3 main layers:

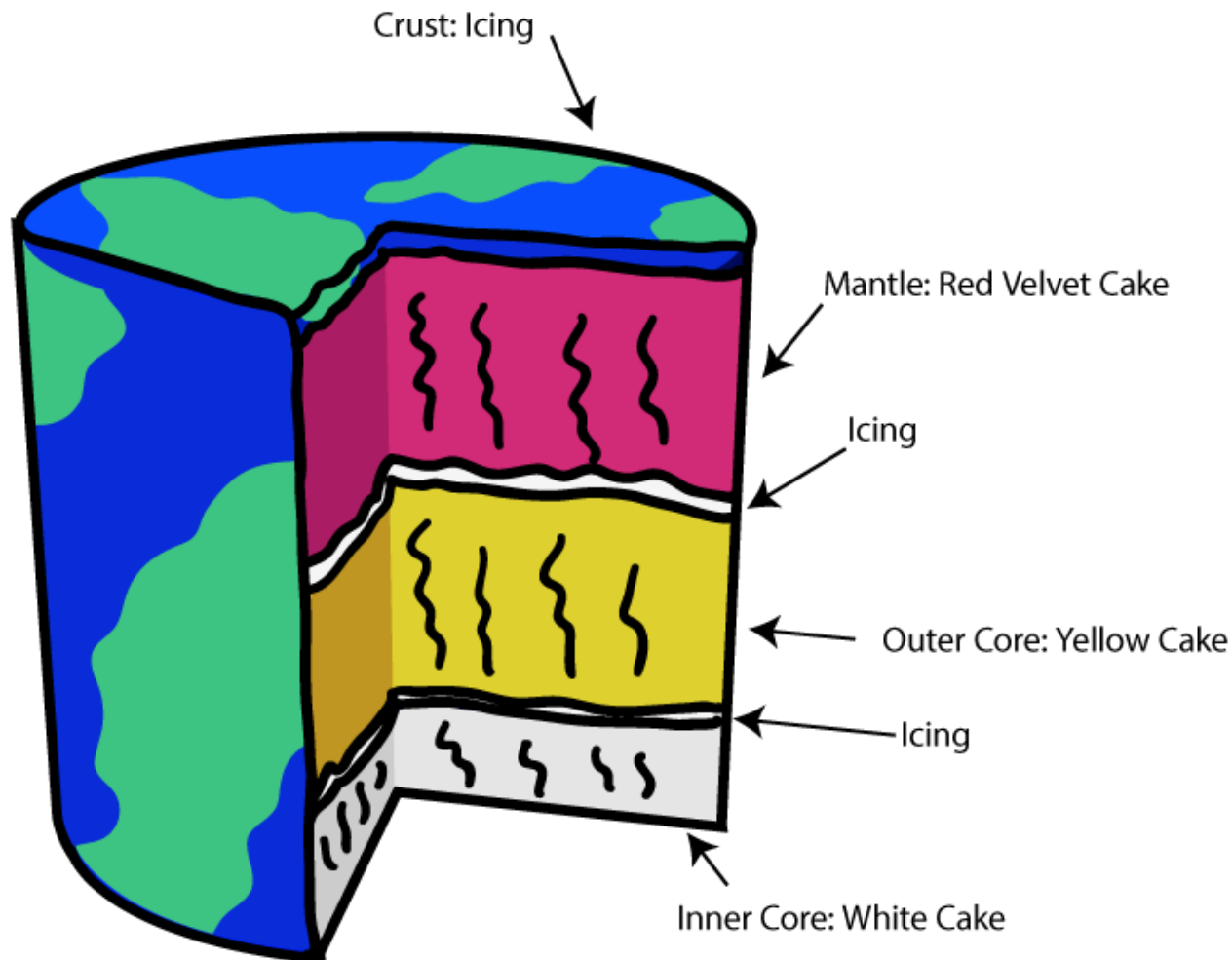
Crust

Mantle

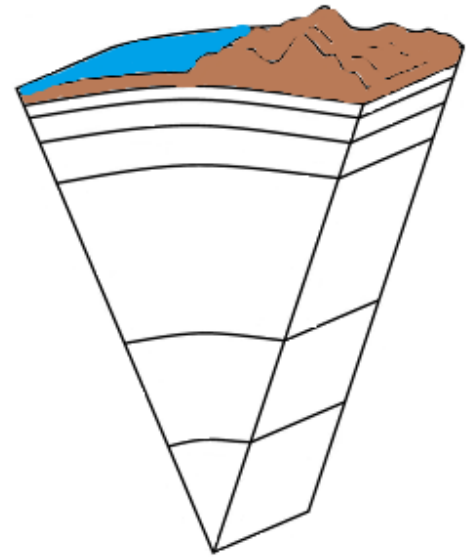
Core



Think of the layers of the Earth like the layers of a cake.



Crust

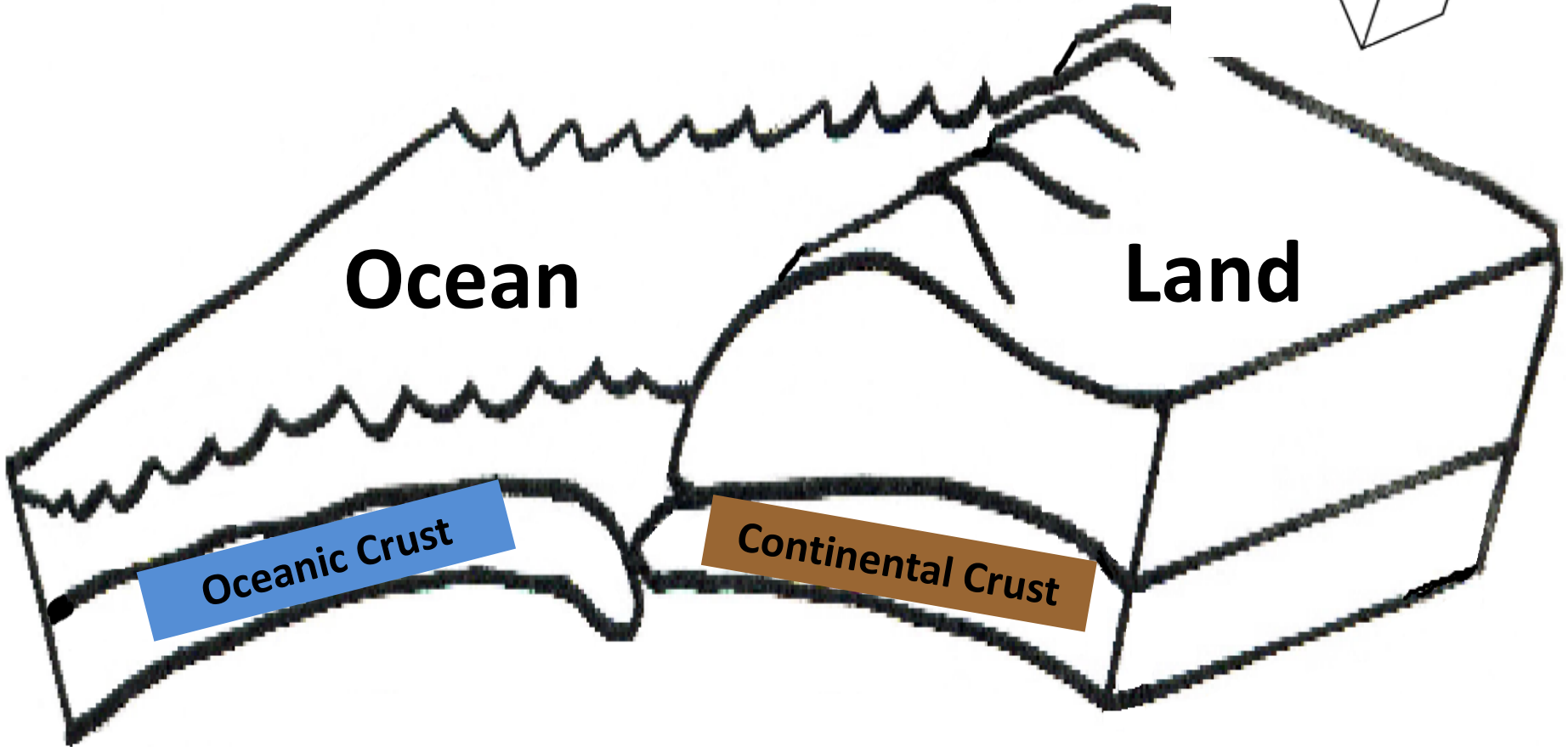


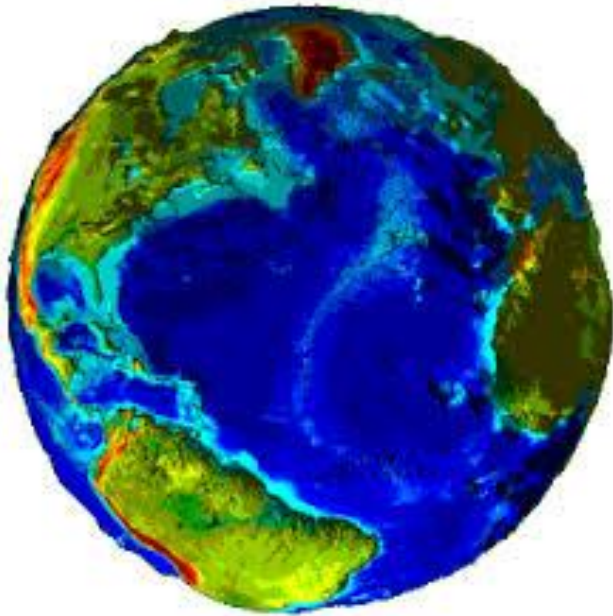
Ocean

Land

Oceanic Crust

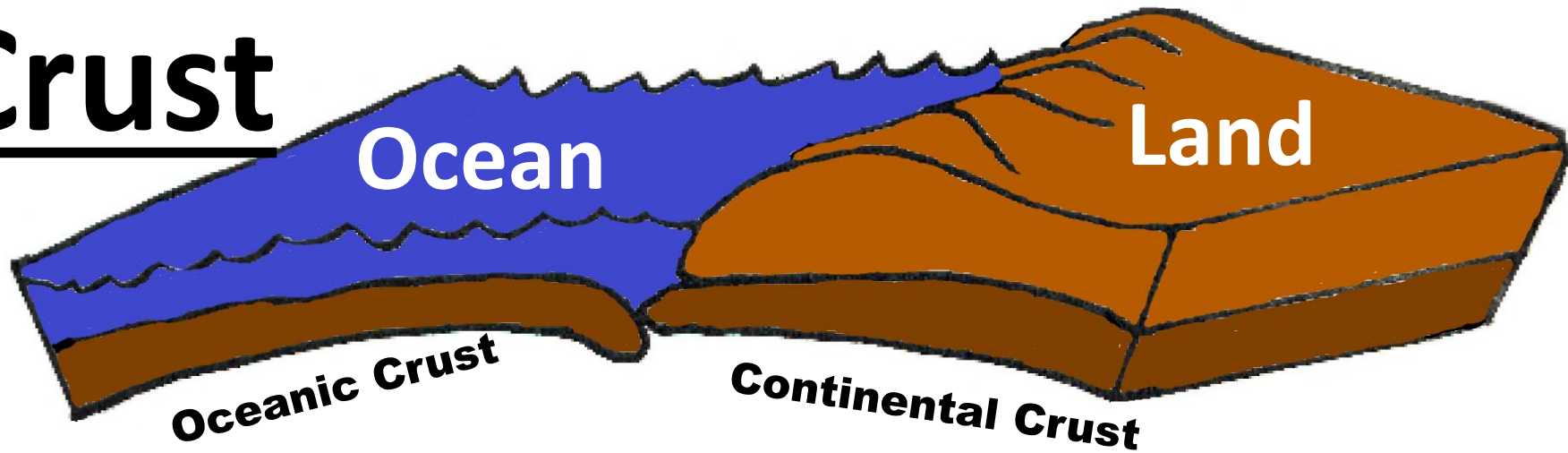
Continental Crust





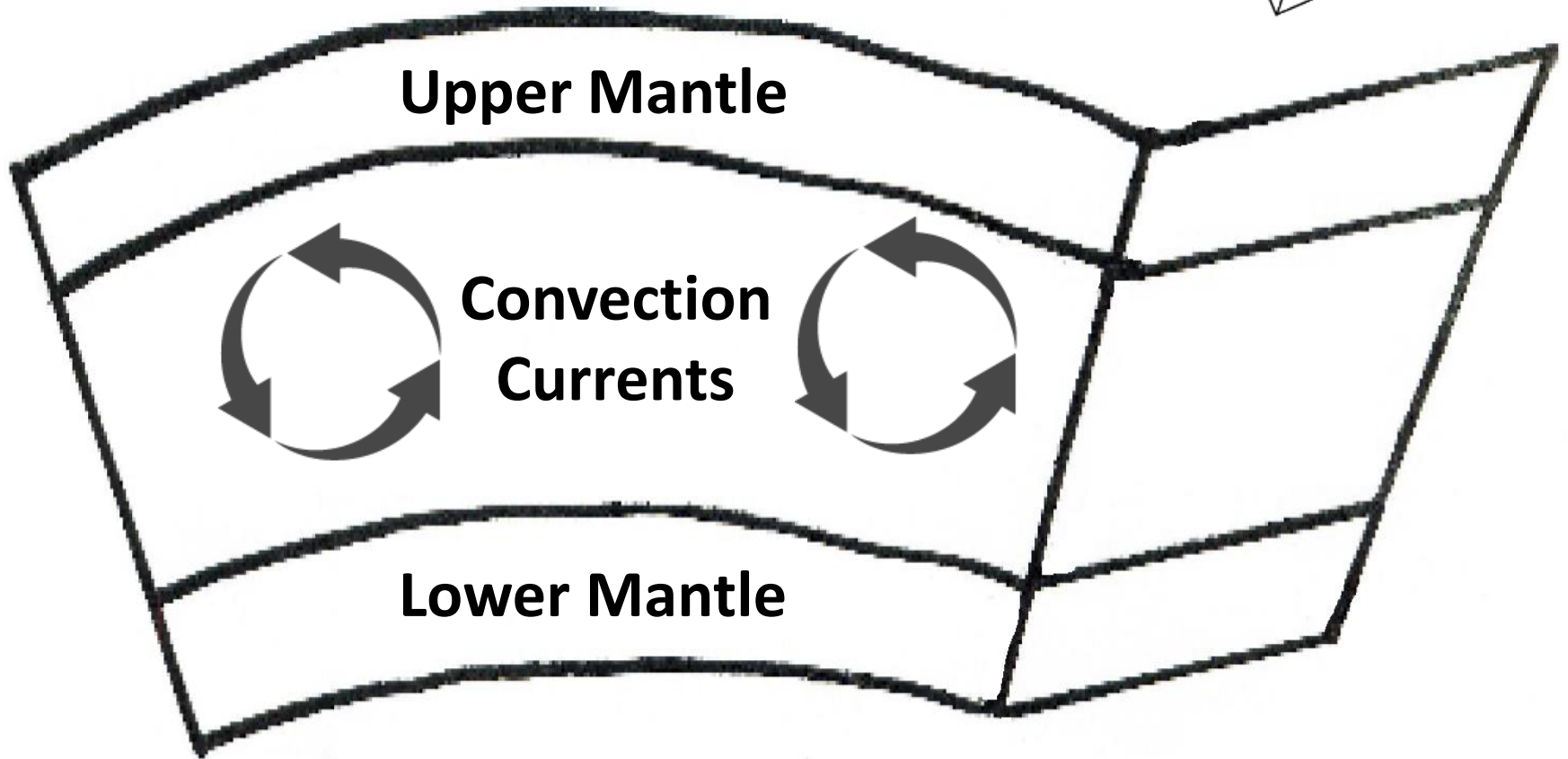
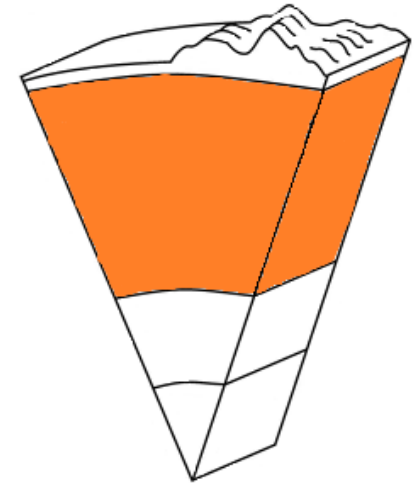
The Earth's crust is like the skin of
an apple.

Crust

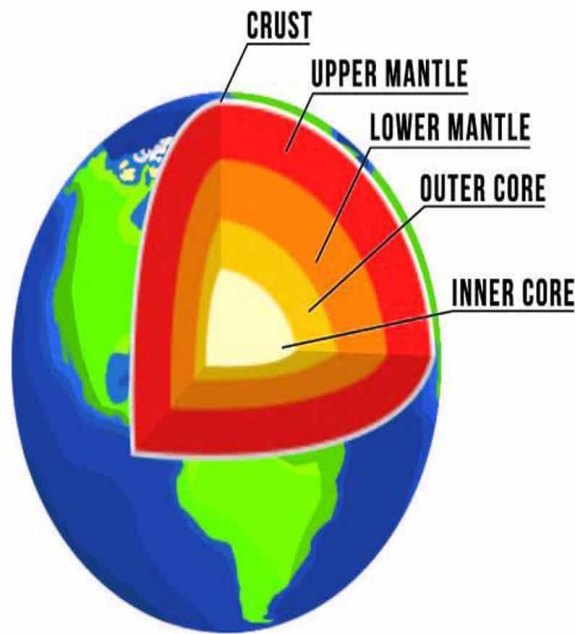


- Thinnest layer of the Earth.
- We live on Crust (or land).
- All plants and animals are on earth's crust.
- Two types of Crust: Oceanic and Continental or Land.

Mantle

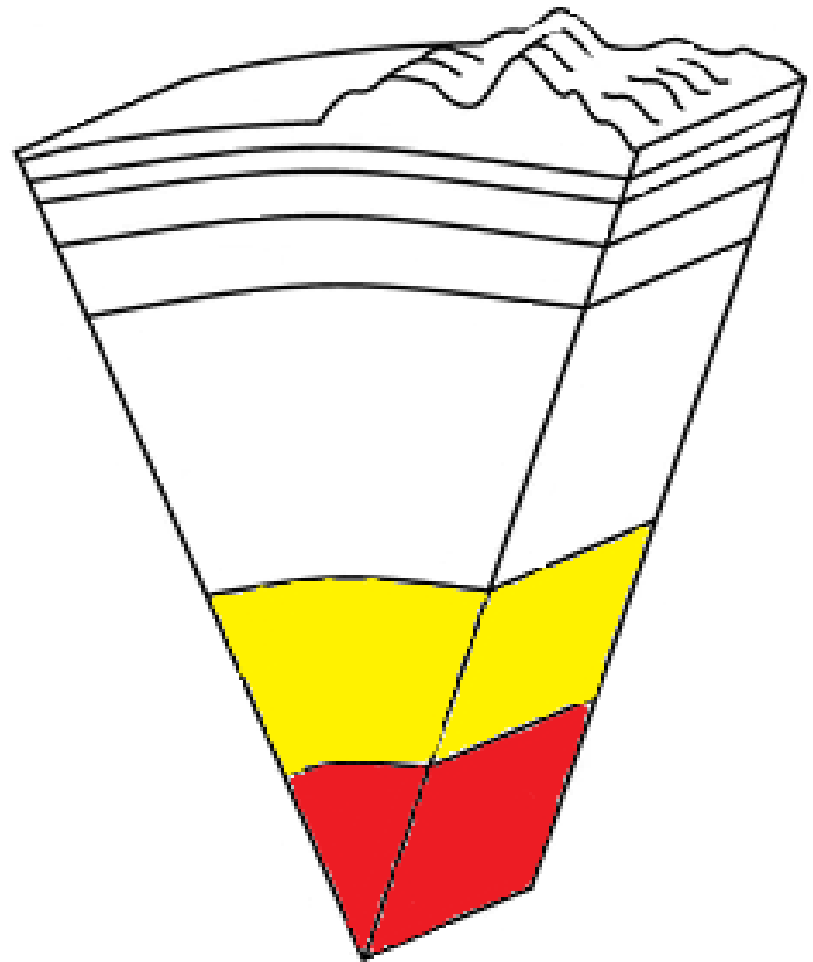
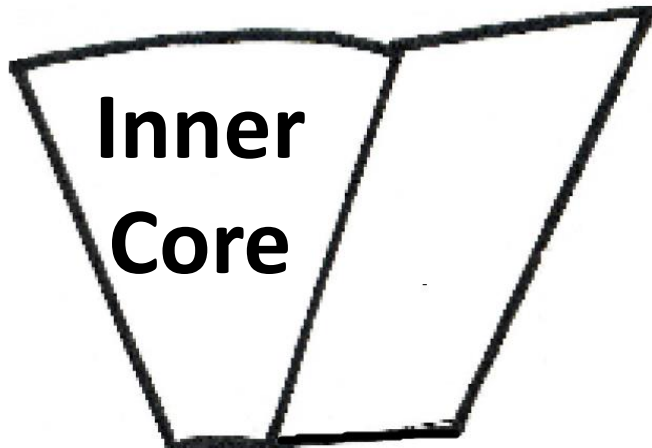
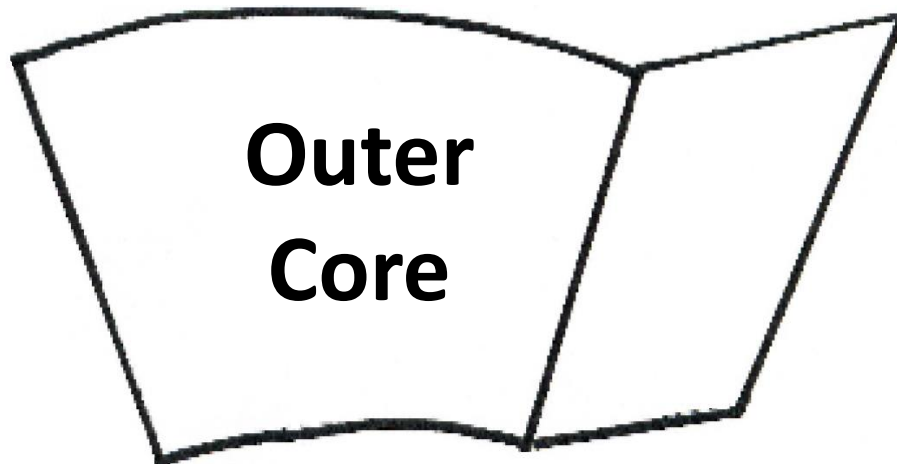


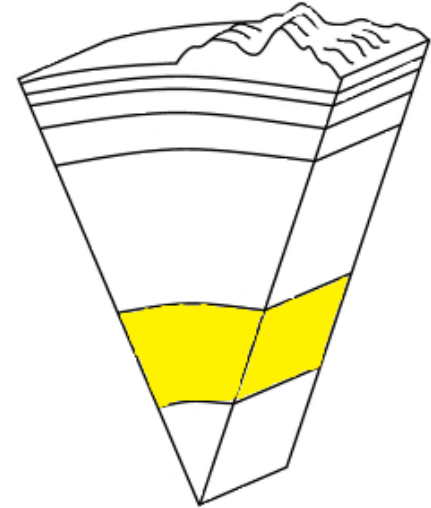
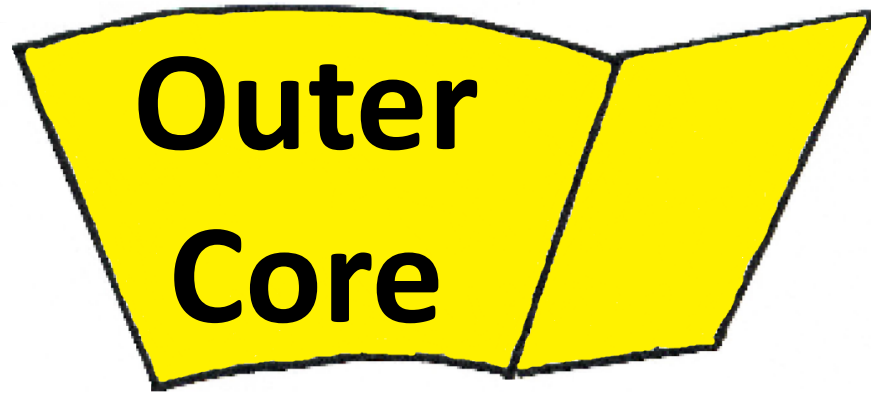
The Mantle



- The **Mantle** is the largest layer of the Earth at 2900 km thick.
- The **mantle** is composed of very hot dense rock.
- It is Solid but capable of flow (like fudge) Semi-Solid/Semi Liquid.

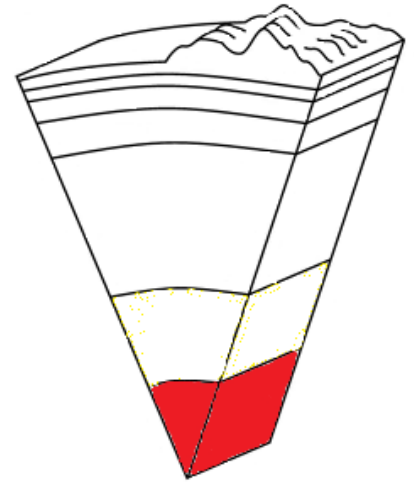
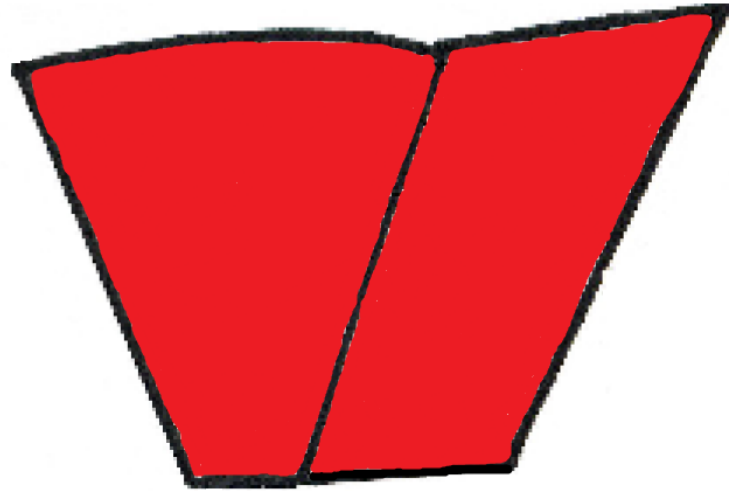
Core





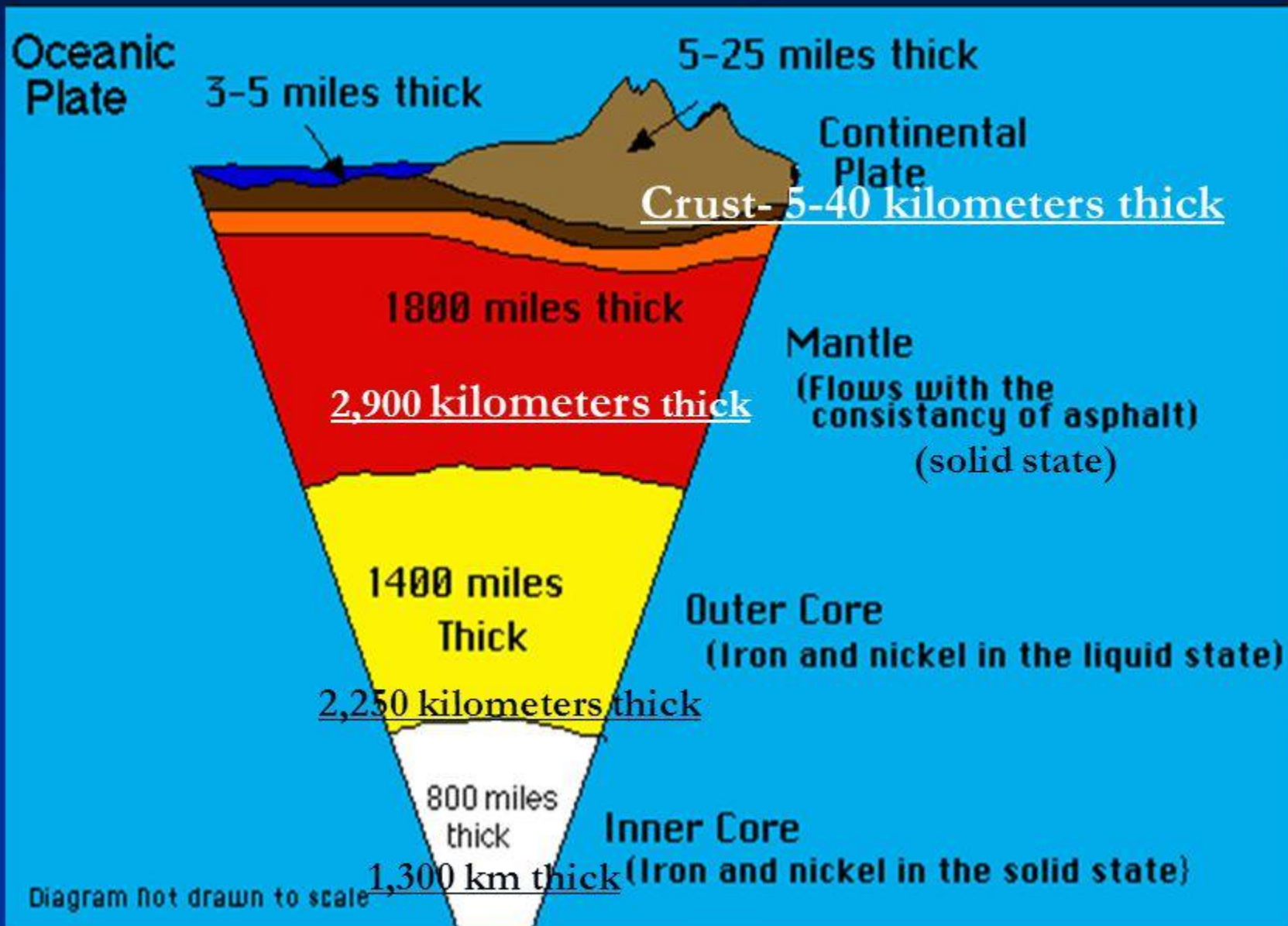
- Composition: Molten (liquid) metal that is about $4,700^{\circ}\text{C}$.
- Thickness: 2,266 km.
- Located about 2900 km beneath the crust.

Inner Core

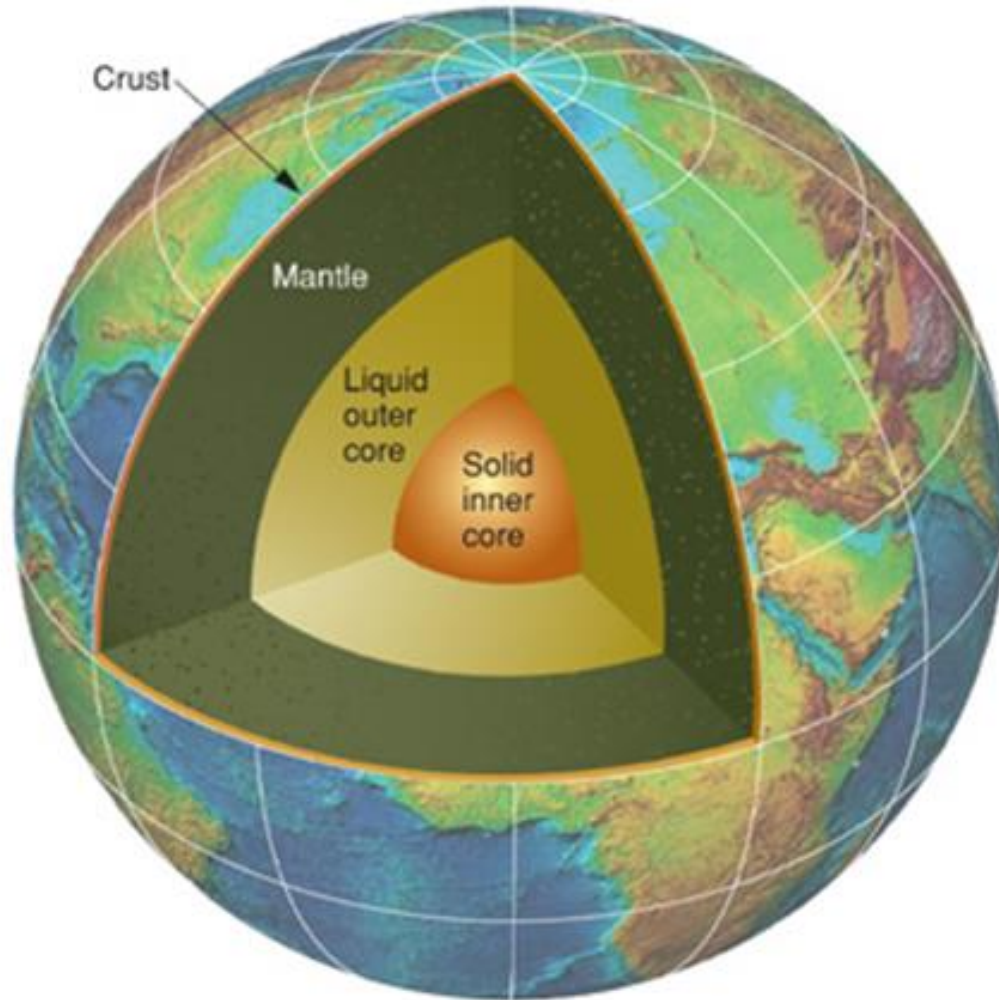


- Solid sphere made mostly of metals.
- It is hottest layer, as hot as $6,650^{\circ}\text{C}$.
- It is solid because of the pressure from the outer core, mantle, and crust compressing it.
- Thickness: 1271 km.

Earth's Layers



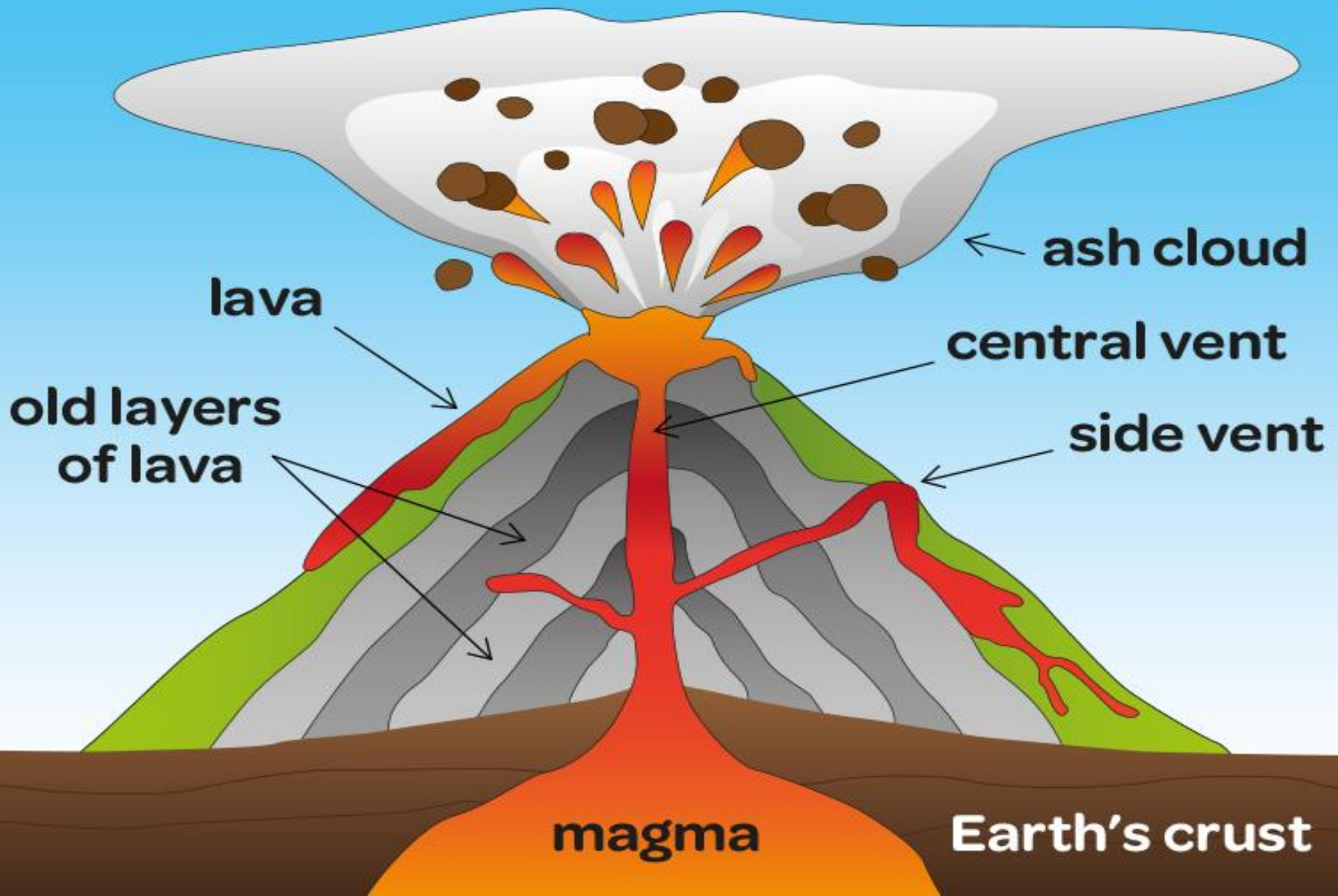
[Click here for video](#)



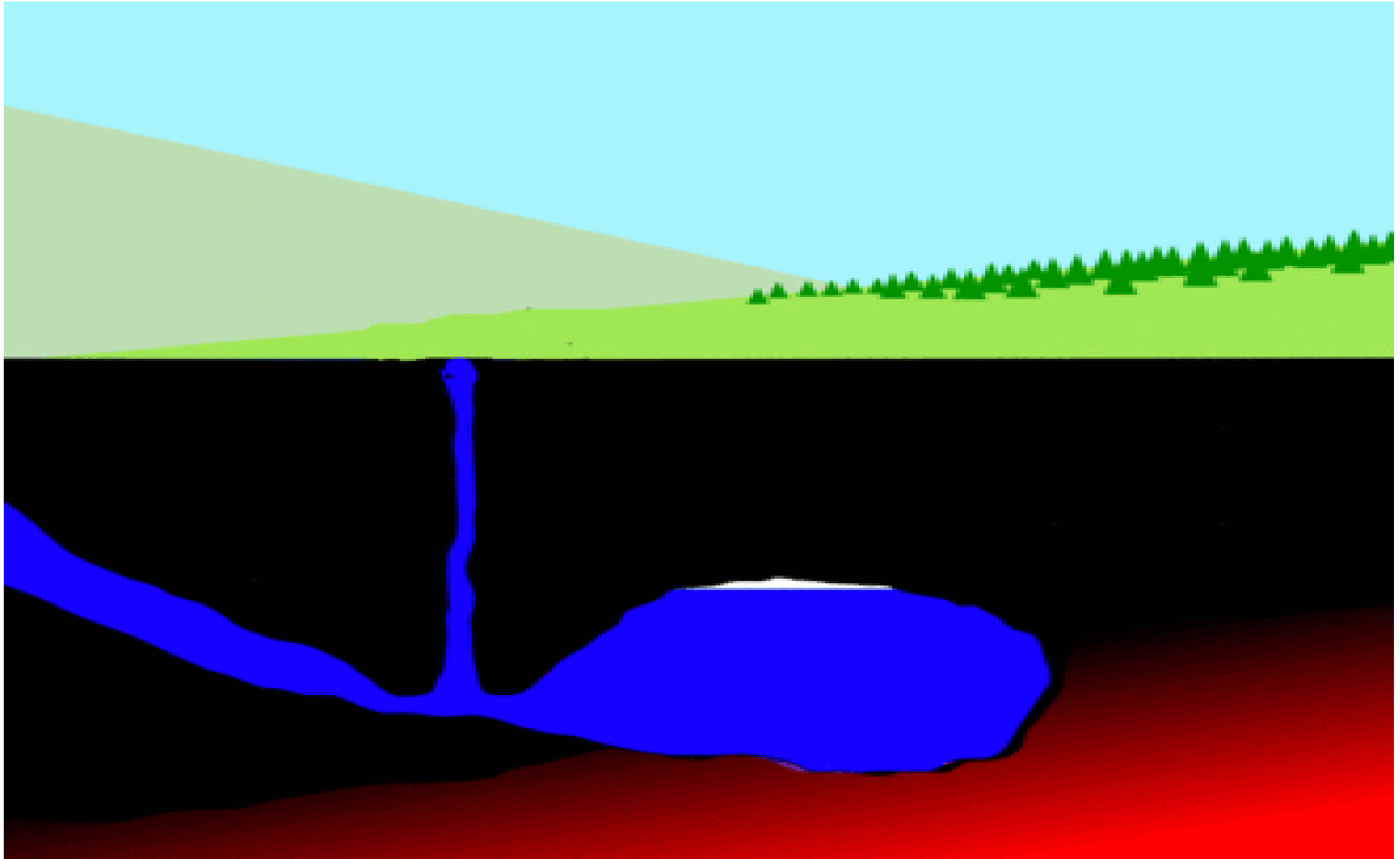
Under the crust

- Rocks under crust can melt due to heat of earth.
- When molten rock finds weak point or hole in the earths crust, it comes out. It is called as **Volcano**.
- Lava cools down into solid rock and accumulate to form mountain.
- Sometimes hot water also comes ot in the form of **hot springs**.

Volcano



Hot springs





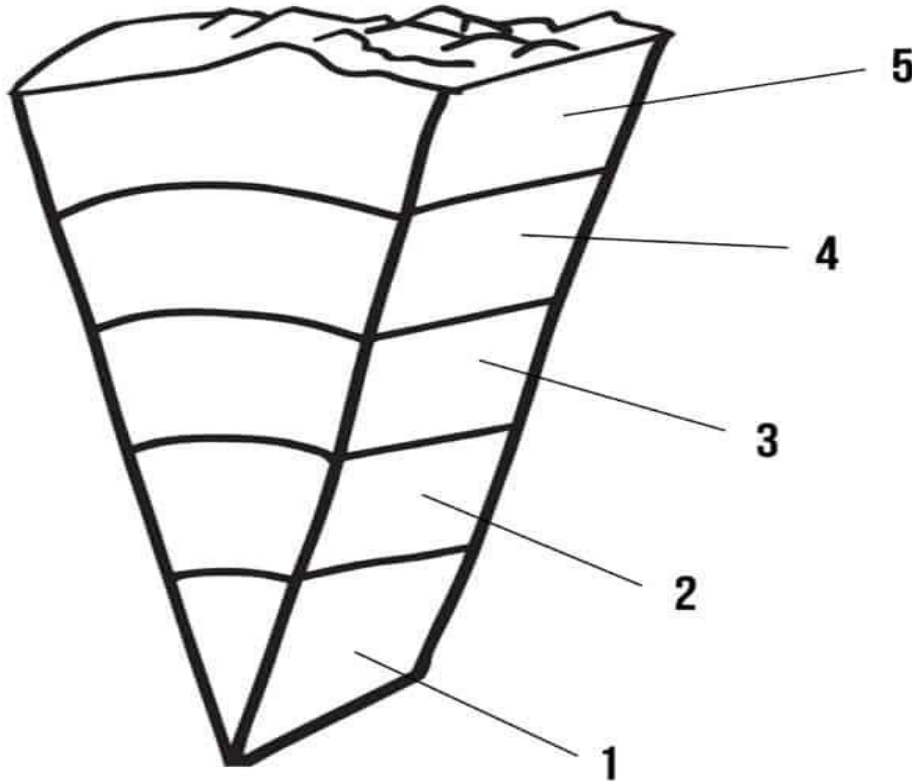
- Do you Know how far have scientists drilled into the earth?

7.6 miles— Only 0.2% of the distance to the earth's core

Practice Quiz

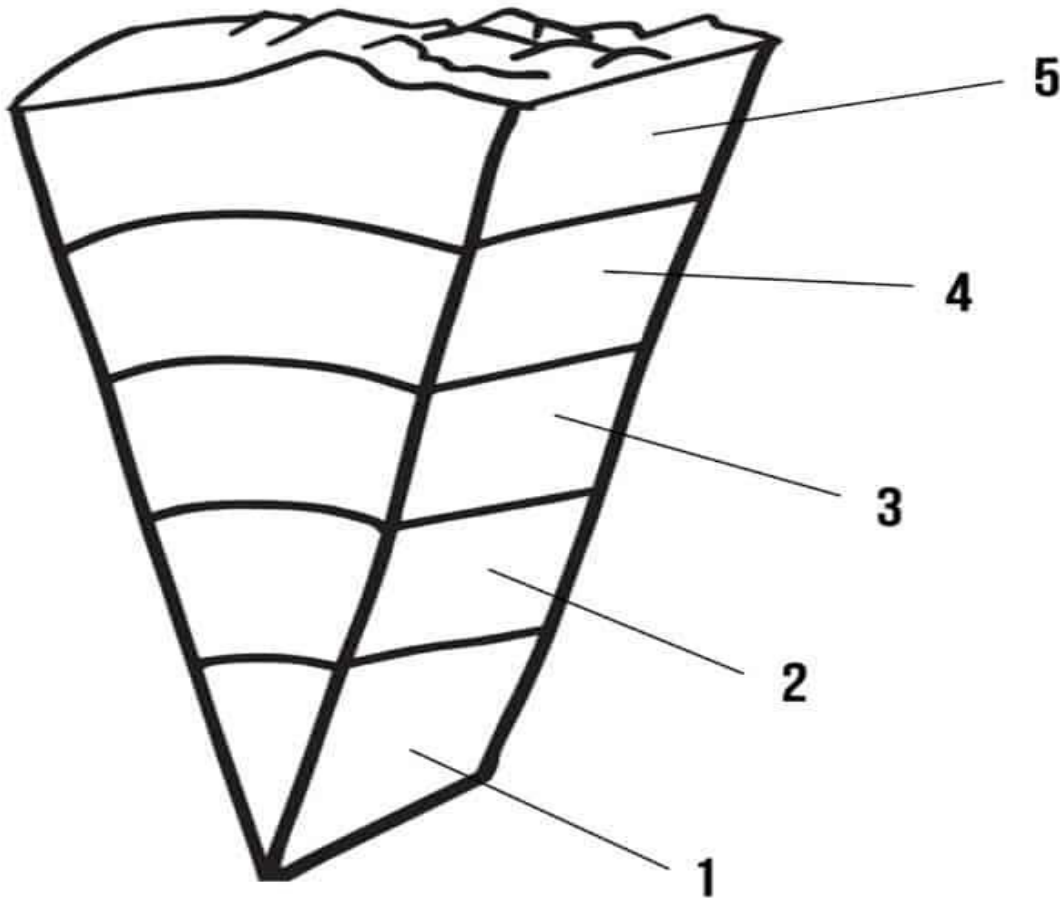
Question

- Can you label the following layers?



1. _____
2. _____
3. _____
4. _____
5. _____

Answers



1. **INNER CORE**
2. **OUTER CORE**
3. **LOWER MANTLE**
4. **UPPER MANTLE**
5. **CRUST**

Few Questions

Q1 What is the Earth's hottest layer?

- a. inner core
- b. outer core
- c. mantle
- d. crust

Q2 The core is the very center of Earth.

- a. True
- b. False

Q3 What layer of Earth do we live on?

- a. core
- b. crust
- c. mantle
- d. atmosphere

Q4 What is the outermost layer of Earth?

- a. inner core
- b. outer core
- c. mantle
- d. crust

Q5 Earth's layers are

- a. ice, gas, and rock.
- b. gas.
- c. crust, mantle, outer core, and inner core.
- d. ice.

Answers

Q1 What is the Earth's hottest layer?

- a. **inner core**
- b. outer core
- c. mantle
- d. crust

Q2 The core is the very center of Earth.

- a. **True**
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Q4 What is the outermost layer of Earth?

- a. inner core
- b. outer core
- c. mantle
- d. **crust**

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- c. **crust, mantle, outer core, and inner core.**
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