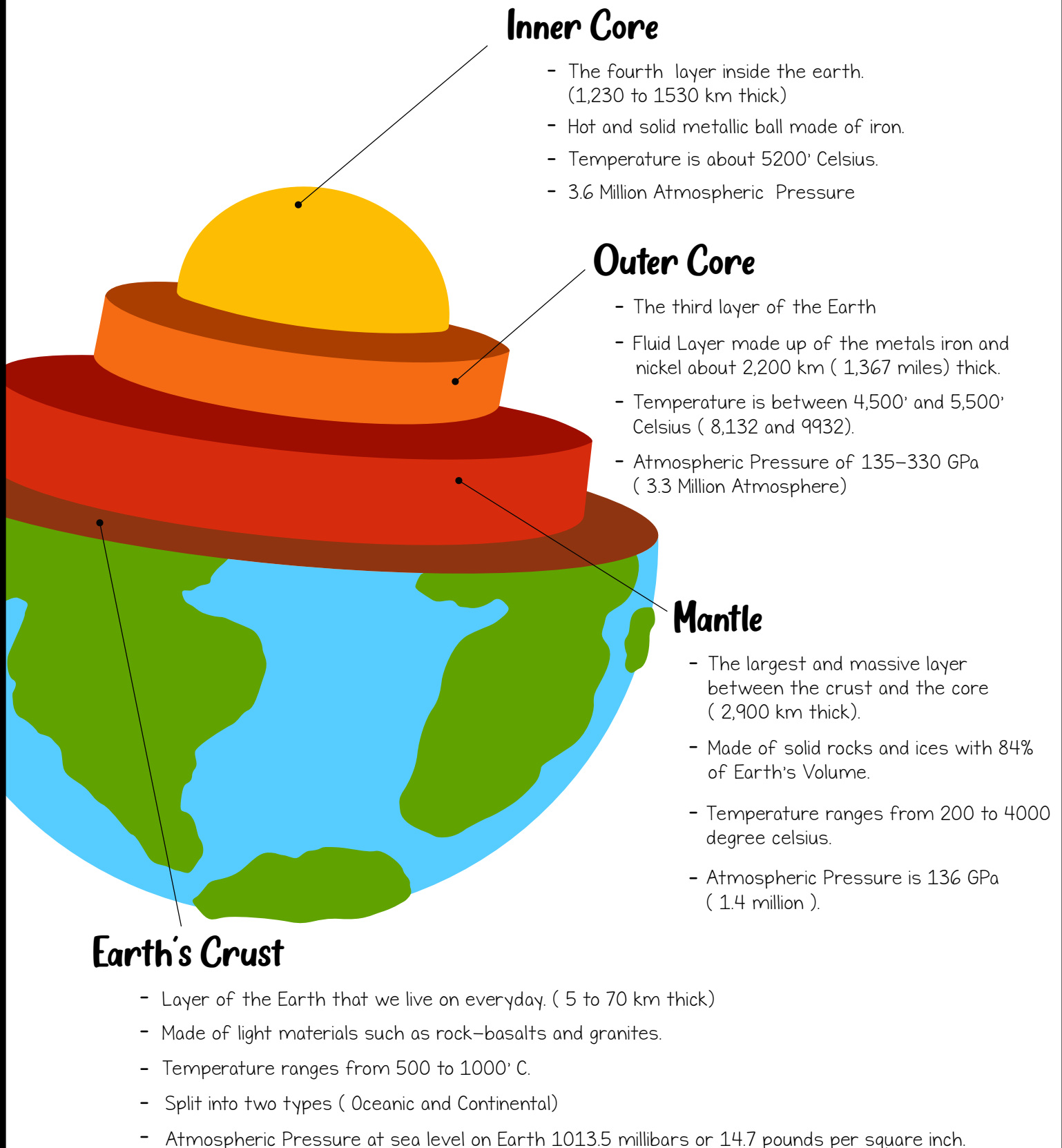
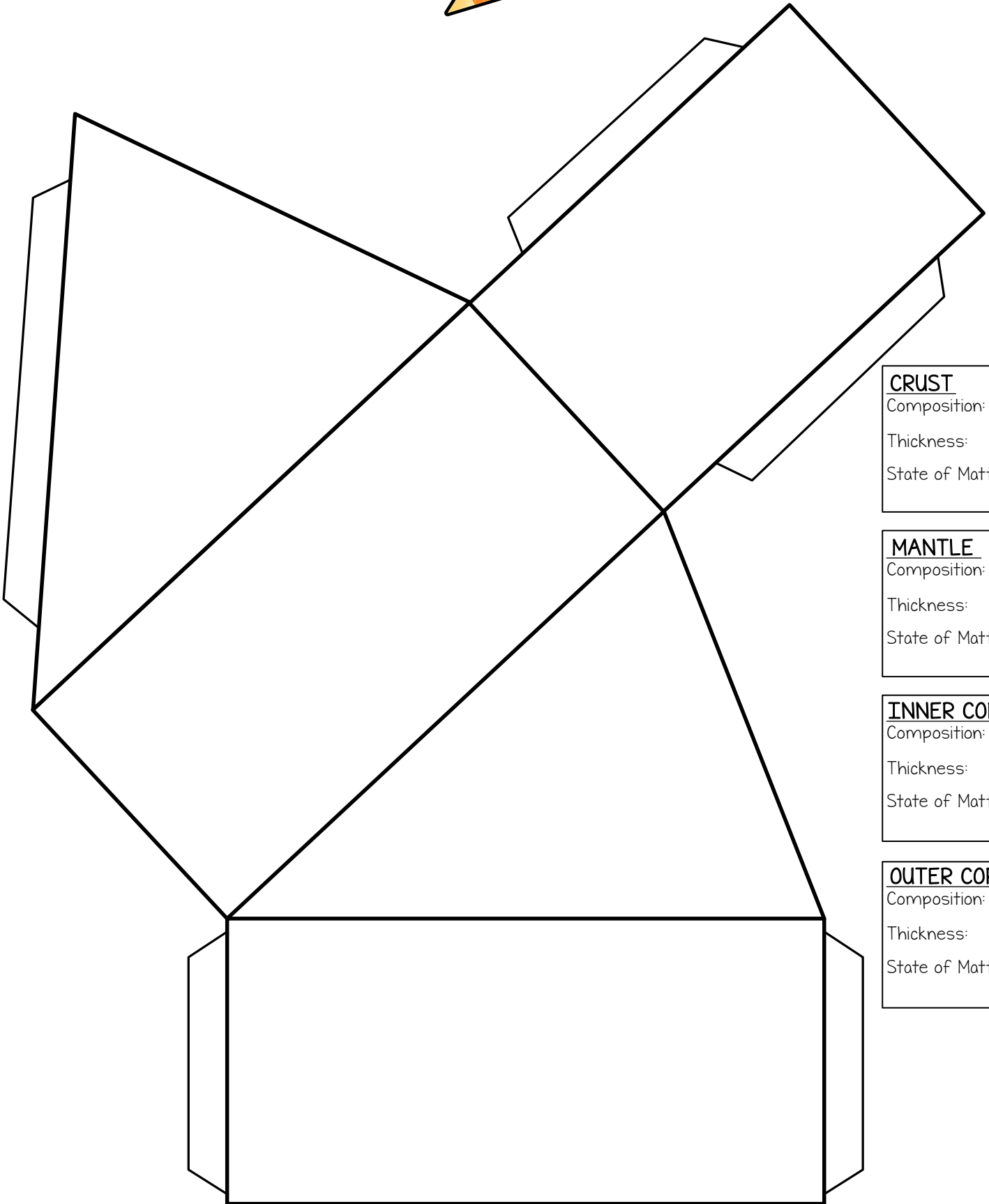


LAYERS OF THE EARTH



Layers of the Earth Section Model



CRUST

Composition:

Thickness:

State of Matter:

MANTLE

Composition:

Thickness:

State of Matter:

INNER CORE

Composition:

Thickness:

State of Matter:

OUTER CORE

Composition:

Thickness:

State of Matter:

LAYERS OF THE EARTH CROSSWORD PUZZLE

Earth
Crust
Sphere
Mantle

Plate Tectonics
Gravity
Lithosphere
Convection

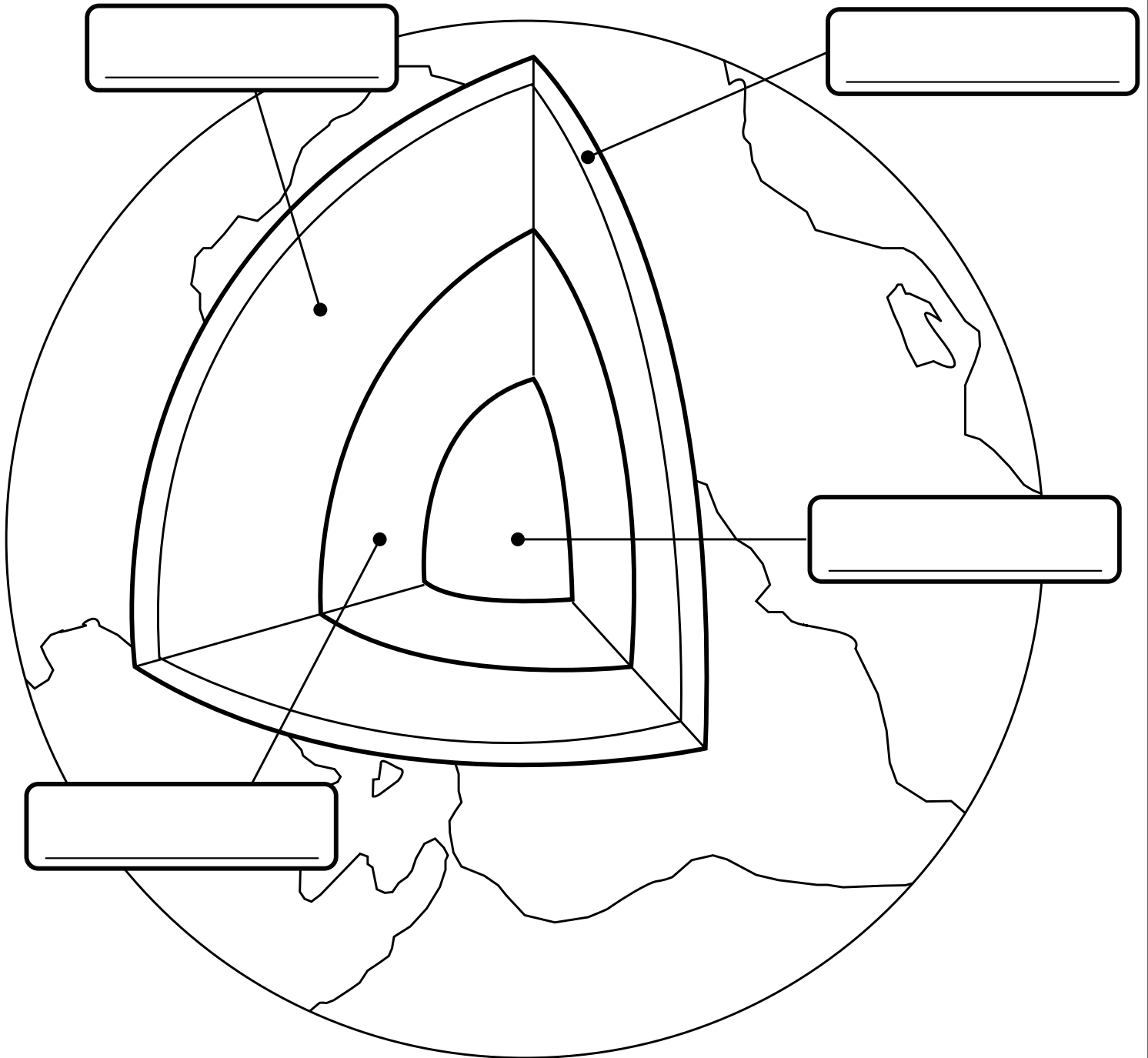
Core
Magnetosphere
Ridge Push
Subduction

Topsoil
Geosphere
Density
Asthenosphere

G E O S P H E R E E X I U J L K H G E
 G X C F O X R I D G E P U S H H M X N
 E A R T H T P L I T H O S P H E R E N
 R G B N R V E E Q E X I U J L K H G E
 G X C F O X Y G P N A A N C M H M X N
 O Z R N E A M P L M O Y R O Y H A Z M
 N C U A N B B C A D U S T N W L G C D
 W F S U I O O P T D V R E V T A N F D
 S Y T R T K K N E R Y R R E A A E Y R
 U U V F R M A N T L E A N C H H T U C
 B N N A O E E T E A B B A T D H O N O
 D H H A G J J K C L K H V I V D S H R
 U A S U B D U C T I O N T O B E P A E
 C A A A N A W U O D E O D N B N H A D
 T F E R Y G H J N Q A A M U N S E F Q
 I A R B G R A V I T Y D E S Y I R A X
 O B N N G R R K C L G A A E I T E B L
 N N B Y R T O P S O I L G P U Y A N D
 A P A R T R C U L A T I E S P H E R E
 U A S T H E N O S P H E R E U Y A F A

What's Inside the Earth

Directions: Color and label the layers of the earth.



Check Your Understanding

Directions: Use the words in the box to complete the sentence.

MAGMA	METAL	OCEANIC CRUST	INNER CORE
IRON	RIDGE PUSH	EARTH	CONTINENTAL CRUST
CORE	MANTLE	ROCKY	LITHOSPHERE
MANTLE	ASTHENOSPHERE	BIOSPHERE	

1. Just like the spherical layers in an onion, _____ has multiple layers that serve different purposes.
2. The thickest layer of the earth is the _____.
3. _____ is extremely hot liquid and semi-liquid rock located under Earth's surface.
4. _____ is the layer of the Earth that is a solid despite its high temperature due to high pressure squeezing the atoms together so that they can't spread out.
5. The _____ and _____ are the metals that is located in the outer core.
6. The earth's crust is _____ and brittle and can break during earthquakes.
7. _____ is a proposed driving force for plate motion in plate tectonics that occurs at mid-ocean ridge as the result of the rigid lithosphere sliding down the hot, raised asthenosphere below mid-ocean ridges.
8. _____ is hot, ultramafic rock and represents about 68% of the earth's mass.
9. Earth's crust is divided into two types, _____ and _____.
10. The _____ is composed of both the crust and the portion of the upper mantle and behaves as a brittle, rigid solid.
11. The _____ is partially molten upper mantle material and behaves plastically and can flow.
12. The _____ is the thin life-supporting stratum of Earth's surface, extending from a few kilometers into the atmosphere to the deep-sea vents of the ocean.

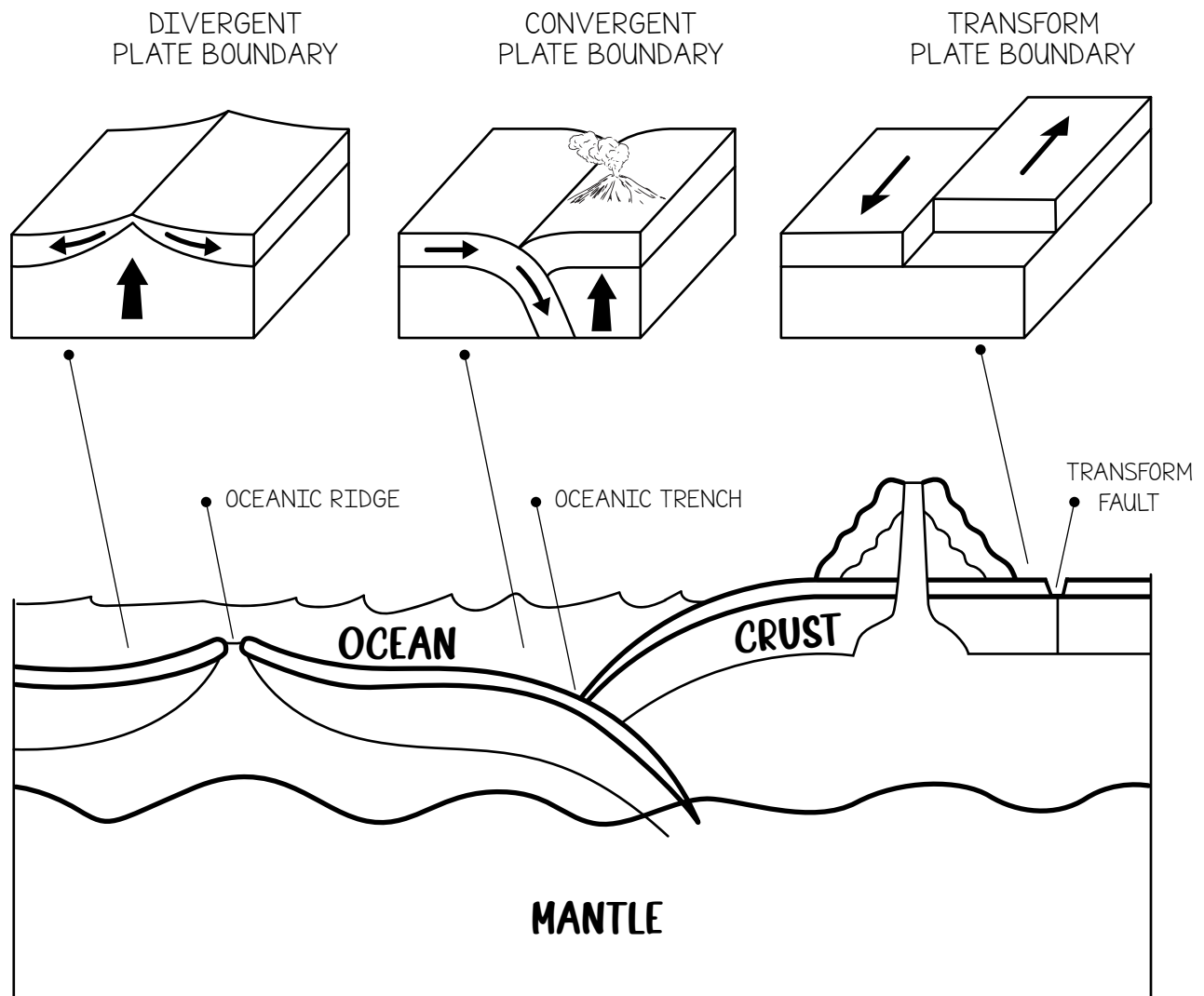
EARTHQUAKES

An earthquake is the sudden release of strain energy in the Earth's crust, resulting in waves of shaking that radiate outwards from the earthquake source. When stresses in the crust exceed the strength of the rock, it breaks along lines of weakness, either a pre-existing or new fault plane.

The exact place deep in the ground where the earthquake happens is called the **hypocenter**. If you draw a line straight above this point deep in the ground to the surface, you will find the **epicenter**.

The place where the two pieces of earth slip is called slip is called the **fault** or **fault line**.

PLATE BOUNDARIES



The Earth's Layers

Drawing	Name of the Layer	Definition	Describe what happens in this layer
	CRUST-		

The Plate Boundaries

Drawing	Boundary Type and Definition	Fault Type and Definition	Describe What Happens in This Stage
			<p>Plates collide causing the edges of one or both plates to buckle up into a mountain ranges or one of the plates may bend down into a deep seafloor trench.</p>