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**Next**

# Kepler's laws worksheet

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## Plate Tectonics: Identifying Plate Boundary Types and Associated Landforms

**Directions:** Read the following text. Afterward, identify the plate boundaries A-E on the tectonic plate map on the back-side of this page and complete the following Plate Boundary chart and questions. If you need additional information, you can find it in the textbook, your notes, and/or the plate boundary graphic organizer. 20 points. Due at the end of the period.

An easy way to visualize plate movement is to think of a conveyor belt that moves luggage from an airplane to a baggage cart. The conveyor belt represents the underlying asthenosphere, and the luggage represents Earth's lithospheric plates. The luggage is moved along by the conveyor belt until it is dumped into the baggage cart, the same way that plates are moved until they are subducted (sink) into Earth's interior. Although this analogy is a good way to visualize how plate movement takes place, it is limited. The major limitation is that, unlike the luggage, the plates consist of continental and oceanic crust, which have different densities. Oceanic crust is always denser than continental crust, and because of this, only oceanic crust is subducted into Earth's interior where it is destroyed and returned to Earth's surface as magma. This is why we can find rocks over a billion years old on land, but the oldest ocean floor is about 200 million years old: the oceanic crust is always subducted beneath the continental crust.

As the plates move away or toward each other, they create a series of characteristic features that we can see at the surface or ocean bottom, such as mountains, volcanoes, mid-ocean ridges, arc islands, and deep ocean trenches. This movement at the boundaries of tectonic plates is also responsible for events such as earthquakes and tsunamis. Prior to the theory of plate tectonics, scientists thought that these features and events were all separate and unrelated. The theory of plate tectonics is such a powerful discovery because it ties together all of these seemingly unrelated features and events with one explanation. It also reminds us that, even though we usually see our planet as relatively static, it is actually a dynamic system that is always changing, just not on the timescale of human life!

Plate Boundary	Plate Boundary Type (if convergent)	Features that Exist at Boundary	Events that Occur at Boundary
A			
B			
C			
D			
E			

### Questions:

1. What is the difference between oceanic and continental crust? What effect does this have when the two plates interact?

2. Plate tectonics is sometimes referred to as the "Unifying Theory of Geology." Geology is the study of solid Earth, the rocks of which it is composed, and the processes by which it evolves. Why do you think that the Theory of Plate Tectonics is referred to in this way?

3. What do you think Earth would look like if plate tectonics did not exist? Why do you think this?



## 1550-1700 The Scientific Revolution

**Nicolaus Copernicus**

In 1514, Copernicus had finished writing his heliocentric theory, meaning the Sun is at the center of the universe. People at the time believed in the geocentric theory, where the Earth is at the center. Finally in 1543, he finally revealed his theory to the pope, causing it to not anger him or the Church.

**Johannes Kepler**

Kepler was a mathematician who concluded mathematical laws that govern planetary motion. He discovered that planets orbit in an **ellipse**.

**The Scientific Revolution** was a time of thinking of the known natural world in new ways. Scientists of this period recorded their careful observations and possessed a willingness to question accepted beliefs.

**Galileo Galilei**

Galileo was an Italian scientist who confirmed Copernicus' heliocentric theory. He proved Jupiter's moons and their orbits through his telescope. He was placed on trial in 1633 and forced to recant his statements of the heliocentric theory. He was still put under house arrest.

**Sir Isaac Newton**

English physicist and mathematician who developed the 3 laws of motion and the law of gravity.

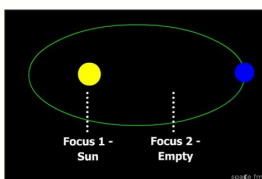
1.  $-5y^{-2}z =$

2.  $\frac{1}{4x^{-3}} =$

3.  $\left(\frac{2x}{3}\right)^{-3} =$

4.  $12^0xy^0 =$

5.  $(a^2b^4c)^{-2} \cdot (ab^2c^2) =$



A great look at the upper and middle school level of this Acids and Bases. A look at the function of many different parts in the different members of the animal kingdom. Let us examine the questions that many children in school have in mind. The questions are so simple, but many of them. These worksheets explore the space and things that revolve around you. The fundamental unity of all matter is explored in depth. Super-small living beings that are as useful to humans as they are harmful. Find out more about our feathered friends. When the cells begin to divide abnormally. Let us examine all processes involved in the recycling of this vital element for living beings. Discover the basic units of life. Let's take a deep look at the parts of the cells. When compounds or mixtures come into contact with each other electron transfer can make a ton of interesting different things happen. Let's look at the study of the subject. Giving things real names makes sure we're all studying the same thing. Data collection is one of the key processes in this area. We work to do it right the first time. These magnificent creatures of the past provide an immense wonder in all of us. One of the four main branches. We need to spend some time figuring out the planet we live on. Explore all and six layers of this gas collection that helps keep living beings safe and protected. Poiche. © The Earth axis is tilted has sweeping consequences for all parts of the planet. What are all the variables underlying these natural disasters? Study how living beings interact and share an area of earth. We explore the natural and unnatural ecological changes of a community over time. Explore the parts according to all forms of electrical circuitry. The movement of current along a circuit is complex and can be used to Advantage. Let's explore all these different classifications of matter and explain the differences. Do you know how to identify other people's feelings? animals that are rare in nature and often forced to be in captivity to allow the species to continue. Where does your food come from? Find out how we create most of the supply of human food. Our pesky laws of Newton come into play for the first time here. The application of all areas used as a tool to rebuild events. Survey How different organisms make copies of themselves to maintain their species. It inspires all layers of the past and what dead organisms and substances can tell us about the past. These are not your everyday birds, in fact, there are not many birds here at all. You'd be amazed by some of the animals that can take the flight. What's in your DNA? See how the traits are transmitted to the prole with this section. An important skill in many disciplines, but we focus specifically on how the chart can be used to help you solve problems. Wearing habits that improve our general health. The human body is fascinating and we will assess how it works. You have five of them to help you complete these worksheets. Learn how to keep your health through basic body care. This is really informative for students. The wider network never put together changed as we communicate forever. We have all the people who shaped history in an important way here including: Bell, Biro, Edison, Ginsburg, Ford, Gutenberg, Whitney, Morse, Ben Franklin, Wright Brothers investigates how energy is stored and active in all stages of movement. Often overlooked, this is how we collect data that will help us understand better what we are looking at. It is probably important to know that we can do it better and how to stay sure to do it. What are all the natural features of the Earth? How do body cells and sex cells make copy of themselves? These are the processes you needFind out more about Luna, our only natural satellite. When chaos strikes Earth, these are usually the culprits. Students explore the use and

function of Newton's laws of motion. There are some animals that often Our minds and we assume that they are right in our gardens. Let's take a look at those animals in this section. Do you know how they take all the organisms in food? Let's take a look at some really cool creatures that are in that big blue mystery. Includes: Sharks, Whale, Rays, Octopi, Dolphins, Jellyfish, Crabs, Coral, Seals and Sea Turtles What lives in the ocean? What are the key dynamics and physics behind the oceans? For example, "Where do the waves come from?" Find out how solute and solvents tend to interact when they are divided by a membrane. A breakthrough that shows how the elements have similarities and differences. Explore the biology behind our friends we spend a lot of time with. We compared different stages of the same substances. The process that provides the mass of energy for all living beings. The organism that doesn't move much, if ever, but knows how to make its own food. I don't think I'd move much if I could make my pizza without doing it. This section tries to answer some common questions that many have about the return of water to planet Earth. These are things we often take for granted, like rainbows. Did you know that over half of the world's plant and animal species live in rainforest areas, but rainforest only covers 2% of the Earth's surface? The treasures of Mother Earth greatly influence life on the planet. Read the comprehension sheets to use with reading in the content area courses. The fundamental approach to finding and determining the truth. The revolutionaries who shaped the world and technology as we know it. Einstein, Galileo, Darwin, Newton, Hubble, Maxwell, Kepler, Pasteur, Dirac, and Fischer These machines have been used to help humans work since the dawn of time. Those awesome supercomputers in our pockets right now. Scrutiny the top layer of the Earth's surface that provides home for the and plant life. Why not learn things that are out of this world? Grouping things together is the first steps towards classification. Yes. Yes. We heat. Provides food for plants and algae. Let's explore our nearest star. A look at the motion of the Earth's plates. We use it to better understand terrestrial forms. Take a look at the various vehicles we use to travel. Meet some of the most primitive and complex organisms on the planet. Become very detailed with your understanding of these great structures left all over the Earth. Let's see the essential compound of life. We examine the chemistry, commercial and common properties and applications of hydrogen hydroxide. See how water changes in the course of the planet. A look at the movement of light and the paths they travel. Created by the sun and the heat changes created by the hot weather affects all of us every single day. Morning.

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