

# Plate Tectonics CR-~~CD~~

**You:** *Wait a second. No "Create" or "Donate"?*

**Me:** *You saw that right, young padawan..... (turns to face camera) at least not yet. (cue dramatic background music)*

## Collect

Learners research the factual building blocks of the project.

- \_\_\_ Co-1. [Continental Drift Prezi](#)
- \_\_\_ Co-2. [Chapter 7-2 with Web - PP](#)
- \_\_\_ Co-3. [Chapter 7-3 Bellringer](#)
- \_\_\_ Co-4. [Plate Boundaries Vodcast - PP](#)
- \_\_\_ Co-5. [Mountains Article and Reflection](#)
- \_\_\_ Co-6. [Chapter 7-3 Worksheet](#)
- \_\_\_ Co-7. [Plate Tectonics Quizlets](#)

## Relate

Learners collaborate and communicate what has been learned.

- \_\_\_ R-1. [Convection Current Demo](#)
- \_\_\_ R-2. [Graham Cracker Lab -- PP](#)
- \_\_\_ R-3. [Plate Tectonics Standard Check](#)

Percent Score \_\_\_\_\_

## Create

Learners tangibly demonstrate their understanding.

## Donate

Learners find a forum to share their work with others.

# Collect

Learners research the factual building blocks of the project.

## Co-1. Continental Drift Prezi

Go to [this link](#) or our [science vodcasts web site](#) to view this prezi and answer the following questions.

Define the following words:

Hypothesis –

Law –

Theory –

Fact –

What is continental drift called (a fact, theory, law, or hypothesis)? Why is this so?

Describe continental drift in your own words.

Describe the reasons why scientists have come up with this hypothesis/theory:

## Co-2. Chapter 7-2 with Web

Read Chapter 7, section 2. Describe how each of the following supports the hypothesis/theory of continental drift (Pangaea). [This assignment will be completed on the paper portion.](#)

## Co-3. Chapter 7-3 Bellringer

If the sea floor is spreading an average of 4 cm a year, how many years did it take New York and the west coast of Africa to reach their current locations, 6,760 km apart?

Think you have the answer? Check with your teacher. As I always say, “Check thyself, lest ye wreck thyself.”

## Co-4. Plate Boundaries Vodcast

The notes for this vodcast will be completed on the paper portion.

## Co-5. Mountains Article and Reflection

Find the article about Mountains (located with the answer keys for this packet). Read the article. Write down three interesting facts you found in the article.

- a.
- b.
- c.

## Co-6. Chapter 7-3 Worksheet

### Chapter 7-3 The Theory of Plate Tectonics

1. The theory that Earth is divided into plates that move around is \_\_\_\_\_.

#### TECTONIC PLATE BOUNDARIES

\_\_\_\_\_ 2. The place where tectonic plates touch is known as the

a. continental plate. b. tectonic boundary c. magma zone. d. tectonic ridge

\_\_\_\_\_ 3. Which of the following is NOT a type of tectonic plate boundary?

a. convergent boundary b. fault-block boundary c. divergent boundary  
d. transform boundary

\_\_\_\_\_ 4. The three ways that tectonic plates can move relative to each other are

a. collide, separate, and slide. b. collide, fuse, and slide c. drift, separate, and slide.  
d. collide, fuse, and drift.

5. When two plates with continental crust collide, what happens to the continental crust?

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Match the correct definition with the correct term. Write the letter in the space provided.

\_\_\_\_\_ 6. boundary formed when tectonic plates collide

\_\_\_\_\_ 7. boundary formed when tectonic plates separate

\_\_\_\_\_ 8. boundary formed when tectonic plates slide past horizontally

9. Which type of boundary produces new sea floor?

- a. Transform boundary
- b. Convergent boundary
- c. Divergent boundary

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10. Which type of boundary produces earthquakes?

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## POSSIBLE CAUSES OF TECTONIC PLATE MOTION

\_\_\_\_\_ 11. When rock is heated, it becomes less dense and tends to  
a. rise.            b. sink. c. move sideways.    d. erupt.

\_\_\_\_\_ 12. When rock cools, it becomes more dense and tends to  
rise to the surface.    b. sink below the surface  
c. move sideways.            d. push against the surface.

13. Density changes in the asthenosphere are caused by the flow of \_\_\_\_\_  
energy from deep within the Earth.

**Match the correct definition with the correct term. Write the letter in the space  
provided.**

\_\_\_\_\_ 14. plate motion due to higher densities

\_\_\_\_\_ 15. plate motion due to gravity

\_\_\_\_\_ 16. plate motion due to the heating and  
cooling of rocks

a. ridge push  
b. convection  
c. slab pull

## TRACKING TECTONIC PLATE MOTION

\_\_\_\_\_ 17. How fast do tectonic plates move?

a. kilometers per year   b. meters per year   c. meters per month    d. cm per year

\_\_\_\_\_ 18. What do scientists use to measure the rate of tectonic plate  
movement?

a. clinometers   b. the global positioning system   c. densitometers   d. seismograph

\*When finished, make sure you are on the right track by correcting with an answer key.

## Co-7. Plate Tectonics Quizlets

Statistics:

# of flashcards known: \_\_\_\_\_

# of flashcards unknown: \_\_\_\_\_

## Relate

Learners collaborate and communicate what has been learned.

### R-1. Convection Current Demo

Explain (in a few sentences) how *convection* works. What does temperature have to do with it? How is the demo similar to how scientists believe convection drives the movement of tectonic plates?

### R-2. Graham Cracker Lab

The write-up for this lab will be on paper. We don't need to risk getting frosting on the Chromebooks. They are made for learning, not putting frosting on.

### R-3. Plate Tectonics Standard Check

What was your score on this standard check? \_\_\_\_\_

Which questions did you answer incorrectly? \_\_\_\_\_

Will you be retaking this standard check? \_\_\_\_\_

How did/can you master the concepts in this standard check?

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