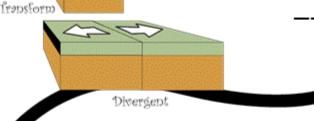
Header (+1) Title: Plate Tect	Page:					
MS-ESS2-2: Construct an exp	Date:					
how geoscience processes ha	ve changed Earth's surface at					
varying time and spatial scales.						
Essential Question: What is the theory of plate tectonics? What are the						
three types of plate boundar	ies? What formations does each	boundary type				
create?						
Main Ideas Drawing (+1)	Student Notes (+1)					
Theory of Plate	Pieces of the Earth's <u>lithosphere</u> —solid crust					
Tectonics	and upper mantleconstantly					
	convection currents in the m	antle.				
 Formations 	 Plate movement forms moun 	tains, volcanoes,				
	earthquakes and deep ocean	trenches.				
 Plate Boundaries 	 The <u>edge</u> of Earth's <u>plates</u> n 	neet at plate				
	boundaries. There are around	l <u>12</u> major <u>plates</u> .				
1. Divergent Boundaries	1. Plates <u>move</u> <u>apart</u> forming a <u>rift</u>	-				
2 Conveneent Poundanies (2	Examples: <u>Mid-ocean</u> <u>ridges</u> and th	e Great Kift				
2. Convergent Boundaries (3	Valley.					
<i>types)</i> A. Ocean collide with	2. Plates <u>collide</u> or smash together. A. <u>Dense, ocean</u> floor plate pushes <u>down</u> into					
continent	mantle re-melting crust. For					
oom mem	mountains, deep <u>trenches;</u> ex					
B. Two Oceans collide	Saint Helen, Mount Lascar	<u></u>				
	B. Older, denser plate is pushed	down				
	(subduction) under the young					
	deep trench; Island arc of vo					
C. Two Continents collide	Examples: Tonga Trench, Phi	<u>lippine</u> Islands				
	C. No subduction of plates; coll	ision causes				
	crust to crumple up to form					
3. Transform Boundaries	examples: <u>Himalayan</u> Mounta	•				
11.1.0	3. Plates side-slip past each other.	-				
 Hot Spots 	earthquakes occur. Examples: San					
	Weak spots around the crust flows to the surfaces every					
C	flows to the <u>surface;</u> example					
Summary (+1): In 3-5 sentend	es, answer the essential questio	n:				
Question (+1):	© The Teacher	r Time Saver 2016				

Header (+1) Title:		Page:		
MS-ESS2-2:		Date:		
Caractical Occaptions What	is the theory of plate teatoning	W/Lad and the three		
Essential Question: What is the theory of plate tectonics? What are the three types of plate boundaries? What formations does each boundary type create?				
Main Ideas Drawing (+1)				
Theory of Plate	Pieces of the Earth's	-solid crust and		
Tectonics	upper mantleconstantly, driven by			
	convection currents in the n			
 Formations 	 Plate movement forms, volcanoes, 			
	and deep oce			
 Plate Boundaries 	• The of Earth's			
	boundaries. There are aroun	d major		
1. Divergent Boundaries	1. Plates forming a _	Examples:		
i. Dirorgoni Dodinadi 100	and the Gree			
2. Convergent	2. Platesor smash togethe			
Boundaries (3 types)	A, floor plate			
A. Ocean collide with	mantle re-melting crust. For			
continent	mountains, deep Exa	ımple:		
B. Two Oceans collide	, Mount Lascar	d (oubdustion)		
b. I wo oceans compae	B. Older, denser is pushed under the Formation	-		
	Island arc of volcanoes; exar	_		
	Islands.			
C. Two Continents	C. No subduction of plates;			
collide	to crumple up to form			
O T 04 D4	Mountains and the A			
3. Transform Boundaries	3. Plates past each o			
 Hot Spots 	 occur. Examples: spots around the 			
• nor apora	to the Example:			
Summary (+1): In 3-5 sent	ences, answer the essential questi			
	011000, million 01 1110 0000, m. q. 101			
	© The Tee	acher Time Saver 2016		
Question (+1):				

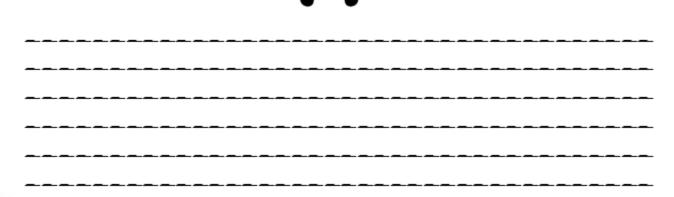
	2	3
13/2	Conve	rgent
	7	A . 1

Page: ___

Activity: Plate Boundary Chart Challenge



- 1. Written Portion (+1): Complete the chart by drawing a picture, land features that result from plate movements, and specific examples of Earth's features. *Challenge*: Research other examples not included in Cornell notes.
- 2. Art (+1): Draw and label the three different plate boundaries and include arrows to illustrate the movement of the plates. *Challenge*: include resulting Earth's features.
- 3. Color (+1): Use at least four different colors effectively.
- 4. Reflection (+1): In three to five sentences using at least 3 different vocabulary words (highlight), compare and contrast the three different plate boundaries. Starter sentence:
- "______ boundaries move ____ (describe direction of movement) where as _____ boundaries move ____ (describe)."
- Excellent (+1): produce a quality piece of work by demonstrating critical thinking.





Activity: Plate Boundary Chart Challenge

Plate Boundaries	Picture/ Movement (arrows)	Land Feature	Examples
Divergent			
Convergent			
Ocean~ Continent			
Ocean-Ocean			
Continent- Continent			
Transform			

