*	Puzzling Pangaea	×	0/1	1	
Name:	Period:	Date:	7111	18	
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**Problem:** What is the effect of convection currents on the location of the continental crust due to the movement of the Earth's plates (lithosphere)?

<u>Class Vote:</u> Think about the following two statements. One is true and one is false. Determine which you believe to be true based on your current knowledge and which is false. Complete the chart that goes along with the statement and be prepared to share out.

Statement	True or False?	Justification . Why?
The plates (lithosphere) move because of convection currents in the asthenosphere but no changes are made to the continents or the way the Earth looks since they are all moving.	F	There 15 proof that the continents are moving apart.
The plates (lithosphere) move because of convection currents in the asthenosphere which completely changes the continents location and the way the Earth looks over time.		Plates move at different rates, different directions.

## Research:

<u>Puzzle Research:</u> Analyze the shapes you have received. As a group, predict which continent each shape represents. (You may refer to the picture of the current-day continents made available to you.) Write your predictions near each shape. Record your experience here:

<u>Peer Interview Knowledge:</u> Discuss the following questions and answer them based on research you have already completed (science you already know!).

- 1. What are convection currents? What do they do?
- 2. What are lithospheric plates?
- 3. What does the Earth look like now? (think about social studies and the continents and the oceans)

Book Research: Answer the following quest	ions using the rea	ading on page	es 136-140.	
1. Who was Alfred Wegener (where was	he from? what did	I he propose?	what is the name of h	nis theory? etc.)?
2. Define Pangaea.				· ·
3. List the seven landmasses that existe	ed millions of year	rs ago.		
4. Complete the table of evidence for P	angaea:			
Type of Evidence		his prove P	angaea existed?	
Fossil		P P X		
Land Features				
Climate	1 1			
<u>Class Vote – Take 2!:</u> Think about the fol which you believe to be true based on your goes along with the statement and be prepared.	current knowledg			
Statement	True or False?	:	Justification	
The plates (lithosphere) move because of convection currents in the asthenosphere but no changes are made to the continents or the way the Earth looks since they are all moving.		2		
The plates (lithosphere) move because of convection currents in the asthenosphere which completely changes the continents location and the way the Earth looks over time.				
Hypothesis: Record your hypothesis based riginal problem you are trying to solve!)	on the research	you complete	ed today! (HINT: R	efer back to the
				2