

Directions: Answer the following question(s).

- 1 Which of the following pieces of evidence are evidence for seafloor spreading? (select all that apply)
- A. The same fossils are found on separate continents of the earth
  - B. The seafloor has a series of Mountain ranges with mirrored profiles
  - C. The age of rocks on the seafloor creates a mirrored pattern around the mid-ocean ridges
  - D. The same pattern of rock sequences can be found in several different continents (Basalt on top of Glacial Till)
  - E. The seafloor shows a mirrored pattern of rock magnetism across the mid-ocean ridges
  - F. The age of oceanic crust is youngest near the mid-ocean ridges and older as you get farther from the ridges
  - G. There is evidence of warmer climates for Antarctica (plant fossils) and colder climates for Africa (glaciers) in the past
  - H. Some continents have coastlines that seem to fit like a puzzle

Master ID:	2330146	Revision:	1
Correct:	<b>BCEF</b>		
Standards:	NLS.SCI.8.ESS.1.2.a NLS.SCI.8.ESS.1.2.b		

- 2 Which of the following pieces of evidence are evidence for continental drift theory? (select all that apply)
- A. The same fossils are found on separate continents of the earth
  - B. The seafloor has a series of Mountain ranges with mirrored profiles
  - C. The age of rocks on the seafloor creates a mirrored pattern around the mid-ocean ridges
  - D. The same pattern of rock sequences can be found in several different continents (Basalt on top of Glacial Till)
  - E. The seafloor shows a mirrored pattern of rock magnetism across the mid-ocean ridges
  - F. The age of oceanic crust is youngest near the mid-ocean ridges and older as you get farther from the ridges
  - G. There is evidence of warmer climates for Antarctica (plant fossils) and colder climates for Africa (glaciers) in the past
  - H. Some continents have coastlines that seem to fit like a puzzle

Master ID:	2330139	Revision:	1
Correct:	<b>ADGH</b>		
Standards:	NLS.SCI.8.ESS.1.2.a NLS.SCI.8.ESS.1.2.b		

- 3 Which of the following things can be explained by Plate Tectonic Theory? (select all that apply)
- A. The locations of many earthquakes on earth
  - B. The distribution of most volcanoes on earth.
  - C. The location of mountain ranges and mid-ocean ridges
  - D. patterns of moraines throughout Ohio
  - E. The patterns of seafloor age on earth
  - F. Rock arches found in the desert

Master ID:	2330188	Revision:	1
Correct:	<b>ABCE</b>		
Standards:	NLS.SCI.8.ESS.1.2.c		

Directions: Answer the following question(s).

- 4 The scientist who is responsible for continental drift theory is
- Harry Hess
  - Albert Einstein
  - Charles Darwin
  - Alfred Wegener

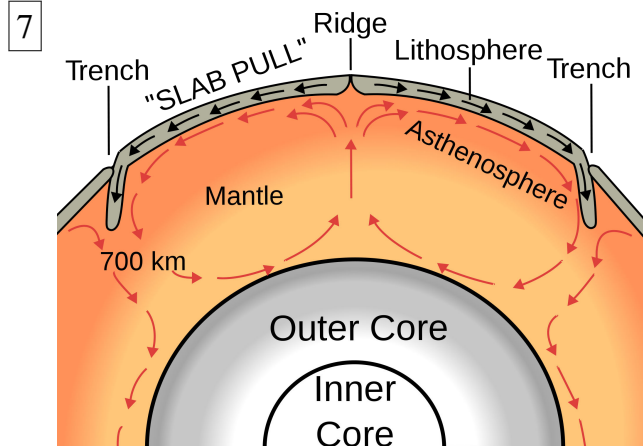
Master ID: 2330151 Revision: 1  
 Correct: D  
 Standards: NLS.SCI.8.ESS.1.2.a

- 5 Which scientist is responsible for developing Seafloor Spreading theory?
- Harry Hess
  - Albert Einstein
  - Charles Darwin
  - Alfred Wegener

Master ID: 2330153 Revision: 1  
 Correct: A  
 Standards: NLS.SCI.8.ESS.1.2.a

- 6 In continental drift theory, the most recent supercontinent that was hypothesized was named \_\_\_\_\_, which means "all land" in Greek.
- Rodinia
  - Pangea
  - Tierra del Fuego
  - Panthalassa

Master ID: 2330158 Revision: 1  
 Correct: B  
 Standards: NLS.SCI.8.ESS.1.2.a



The diagram above shows the cycling of magma in the mantle. This cycling is called a (2 words, not capitalized)

Input #1 Answers

- convection current

Master ID: 2330180 Revision: 1  
 Correct:  
 Standards: NLS.SCI.8.ESS.1.2.b

Directions: Answer the following question(s).

- 8 Part of the problem with continental drift was that there was no explanation for how the plates move. Please explain how the plates move. Be sure to use the terms radioactive decay, density and convection currents, and explain the process of convection currents in detail. (

Master ID:	2330204	Revision:	1
Rubric:	6 Point(s)		
6	Says that radioactive decay creates heat (1 point)		
	heated mantle rises due to lower density (2 points)		
	Spreads out and drags the plates outwards (1 point)		
	Mantle cools and sinks due to lower density (2 points)		
5			
4			
3			
2			
1			
0			
Standards:	NLS.SCI.8.ESS.1.2.b		

- 9 Which country did Alfred Wegener die in?

Master ID:	2330977	Revision:	1
Rubric:	1 Point(s)		
1	Greenland		
0			
Standards:	NLS.SCI.8.ESS.1.2.a		