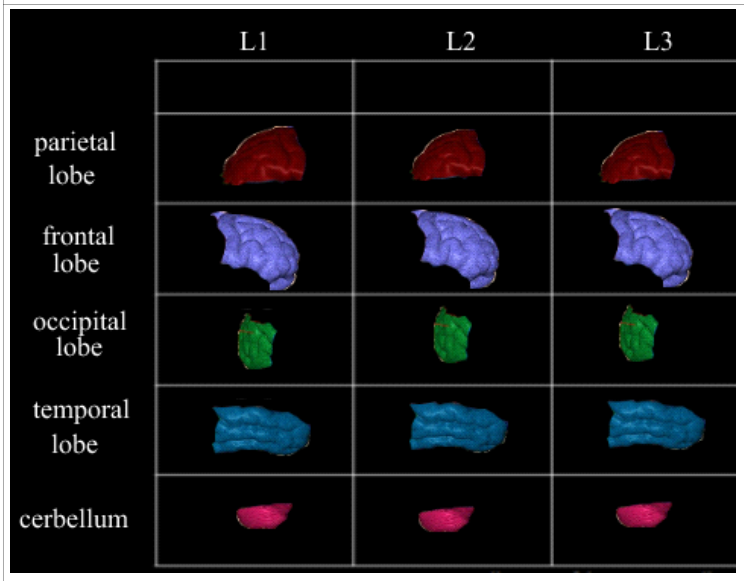
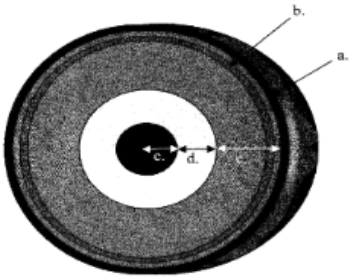
M06 Game Day Solutions

Friday, July 16, 2010
7:19 AM

Slides	Notes
	
	
In a survey of the deep ocean, sonar measurements detect a deep trench on the bottom that runs as far as the instruments detect. What is the most likely cause of the trench? Rock that behaves like something between a liquid and a solid: plastic rock The point on the surface of the earth directly above an earthquake's focus: epicenter The boundary between two sections of rock that can move relative to one another: fault Rock formed when chemical reactions cement sediments together, hardening them: sedimentary rock Between what two regions of the earth can you find the Moho? Choose at least one answer. ☐ a. inner core ☐ b. crust ☐ c. outer core ☐ d. mantle What causes the earth's magnetic field? Choose one answer. ○ a. Seismic waves ○ b. Cosmic rays from the sun ○ c. Electrical flow in the core ○ d. The elastic rebound theory	The trench is probably the site where one plate interacts with another. (The student could discuss the specific interaction--like subduction or separation--but that is not necessary.) Answers in the question prompt to the left Between what two regions of the earth can you find the Moho? Choose at least one answer. ☐ a. inner core ☑ b. crust ☐ c. outer core ☑ d. mantle What causes the earth's magnetic field? Choose one answer. ○ a. Seismic waves ○ b. Cosmic rays from the sun ◉ c. Electrical flow in the core ○ d. The elastic rebound theory



crust	Choose...
asthenosphere	Choose...
mantle	c
outer core	a
inner core	b
	e
	d

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asthenosphere	b
mantle	c
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inner core	e

Which of these theories that attempts to explain the earth's magnetic field is the most scientifically valid, according to your textbook?

Choose one answer.
- a. Dynamo theory
- b. Rapid decay theory

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What major benefit do we derive from the earth's magnetic field?

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- a. fewer earthquakes
- b. cosmic rays from from the sun are blocked
- c. beautiful sunrises and sunsets
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If a region of the earth has a lot of volcanic activity, what kinds of mountains do you expect to find there? (choose two)

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- b. fault-block mountains
- c. folded mountains
- d. domed mountains

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Many scientists think that at one time, all the continents might have fit together to form a supercontinent. What is the name of this supercontinent?

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What have scientists observed in order to learn about earth's interior?

seismic waves or sound waves

1024 times

Many powerful earthquakes are followed later by less-powerful earthquakes called "aftershocks." If an earthquake measures 6 on the Richter scale and is followed by an aftershock that measures 4, how many times more energy was released in the original earthquake as compared to the aftershock?

Quiz: http://www.virtualhomeschoolgroup.com/mod/quiz/edit.php?cmid=17641

Exam: http://www.virtualhomeschoolgroup.com/mod/quiz/view.php?id=17643