PTYS/ASTR 206 - Section 3 - In-Class Activity 1 - Assigned 2/10/09

NAME:	(PRINT CLEARLY)
	Let the sale labeled and a strategral considering side by side at the same
Question 1: S scale.	ketch a shield volcano and a stratovolcano side by side at the same
Con cave profile	Convex in interior sided Shallow sides
5 h	ield Strato-
and and around a dis-	eat within the Earth is currently being generated by (circle one):
Annanatan	(a) Radioactivity
	b) Burning of buried oil and gas
	c) Nuclear fusion of hydrogen atoms
	d) There's no new heat being generated within the Earth
alternating la	A geologist digs a large trench through a volcano and sees yers of ash and volcanic rock. What kind of volcano is this? What an for the composition of the volcanic rock? a Stratovalcano, the ash comes from the eruptions.
explos	we eruptions.
The	rock is high in silver victors when mot
Question 4: 1	We don't have any seismic instruments on Mars, why are we pretty the core is completely (or almost completely) solid? Why has Mars
cooled off so	much more than the Earth?
There	is no magnetic Field on Mors
1 . 1	
as Fa	ast as the Earth, so there is
unlik	est as the Earth, so there is sely to be a liquid core.
Mari	is smaller and so has a higher e area to volume ratio so it cools off faster.
surfac	e area to volume ratio so it cools as

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Question 5: (Save this for the last 5 minutes) – Fast forward the Earth a few more billion years into the future, what will happen to the core? What effects will that have at the surface?

The Earth continues to cool off as radioactive heat sources wane.

The outer core will slowly solidify which will shut down our magnetic field.

Convection in the montle will stop which will end the de compression melting that drives volconism.

Plate tectories will freeze-up and stop as montle convection stops.

Tectonic activity will wone as this hoppens.

Earth will bosically turn into mors.

and person so or figural cons.