	CE			Name:				
PHET: PLAT	E TECTONICS			Per: _		DATE: _		_
	,	HET.colorado.ed het.colorado.ed		plate-tectonics				
Select the Pla	ate Tectonics Si	imulation under	Play with sims-	->Earth Science	?			
Spend a few	minutes explo	ring the simulat	ion.					
Select the "Crust" tab at the top of the simulation. Under view select "Both".					h".	Q2 –	Continenta	1 (
1) What are the 3 <b>variables</b> that can be changed in this simulation? (Scale or zoom is a nice feature, but not a variable.)					or		My Crust Temperature	
•						Cool	Composition	
diagram t	o the right wh	cinental crust as				More Iron	Thickness	M
where you must move the slides.)  3) Try to duplicate the oceanic crust as accurately as possible. Show on the					Thin			
, , ,	there you set ea		rately as possib	le. Show on the		Q3 –	Oceanic C	ru
,	rs from oceanic	ables you have i c crust.				Cool	Composition	
						More Iron	Thickness	
					_	More Iron Thin	Thickness	
		ab at the top of tooundaries (green Which Crust is Denser?		Do non-volcanic Mountains		ollowing a ch	g table: On Whio Crust D Volcano	o es
3) Investigat Left Side Crust	Right Side	oundaries (green	n arrows). Repo	ort your findings  Do  non-volcanic	in the formal in	ollowing a ch	g table: On Whio Crust D	o es
B) Investigat Left Side	Right Side Crust	oundaries (green	n arrows). Repo	Do non-volcanic Mountains	in the formal in	ollowing a ch	g table: On Whio Crust D Volcano	o es
3) Investigat Left Side Crust  Continental	Right Side Crust  Continental Ocean	oundaries (green	n arrows). Repo	Do non-volcanic Mountains	in the formal in	ollowing a ch	g table: On Whio Crust D Volcano	o es

11) w	Look for patterns in density, subduction, and volcanoes in the table. When volcanoes form, on hich plate do they always form?
12) co	Explore how a continental-young oceanic crust collision differs from a continental-old oceanic crust ollision.  • Describe the difference in the angle of subduction between old and new plates.
	How does the distance between the volcanoes and the plate boundary differ between old and new plates?
13) A	Investigate divergent boundaries (red arrows). Click show labels. Describe the relative motion of LL plates at divergent boundaries.
ha	t is generated at ALL divergent plate boundaries?
	Investigate transform fault boundaries (blue arrows). Describe the relative motion of ALL plates at