Plate Tectonics Name\_\_\_\_\_\_\_\_\_

Section 5: Convection

**Convection:***Use the link below to take you to a visualization of convection in the mantle. Use this to help you explain how convection causes our plate movements.*

<http://earthguide.ucsd.edu/eoc/teachers/t_tectonics/p_convection2.html>

<http://www.sciencebook.dkonline.com/11.html>

<http://education-portal.com/academy/lesson/causes-of-tectonic-plate-movement.html#lesson>Quiz Score: \_\_\_\_\_/5

[**http://education.sdsc.edu/optiputer/flash/convection.htm**](http://education.sdsc.edu/optiputer/flash/convection.htm)

***You must use the terms or form of the words density, mantle, core, heat, magma, convection current. They will be used more than once.***

Step 1: Start with **magma** in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ that is near the outer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

#2: **Magma** in the **mantle**, heats up, becomes less \_\_\_\_\_\_\_\_\_\_\_\_\_.

#3: This \_\_\_\_\_\_\_\_\_\_\_rises to the crust pushing the cooler more \_\_\_\_\_\_\_\_\_\_\_\_**magma** aside.

#4: This \_\_\_\_\_\_\_\_\_\_\_ now begins to cool near the Earth’s surface.

#5: As it cools the **magma** becomes more \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

#6: This denser **magma** sinks back toward the \_\_\_\_\_\_\_\_\_\_\_\_\_.

#7: As this \_\_\_\_\_\_\_\_\_\_\_\_ gets closer to the core it gets \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

#8: Now hotter, this \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is less \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and begins to rise again!

#9: This circular moving **magma** creates a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

#10: As the **magma** moves in a giant circle it drags the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_