This laboratory is divided into 3 parts.

Part 1 is to be done BEFORE you come to your weekly laboratory class.

Part 1, which also appears in your lab book, follows next. If there are internet links in Part 1, you can click on those links to go to that assigned web page.

For Part 1, you should write your answer(s) in the space(s) provided in your lab book and bring those answers to your lab class ... or submit your answers otherwise as requested.

In the abbreviated Parts 2 and 3 (below), only the internet link(s) appear in this online version. For the full exercises in Parts 2 and 3, see your lab book.
LABORATORY 10 – PLATE TECTONICS

Part 1. Laboratory preparation

Before starting this laboratory, you are required to read Chapter 17 in your textbook, *The Sciences*, by Trefil and Hazen.

Activity 1-1 – Background reading

To prepare you for this laboratory, please read carefully the textbook excerpt on Earth’s plate tectonics at the following link:

http://www.auburn.edu/academic/classes/scmh/1010/Plate.php

**WARNING** – Do NOT also click on the link at the top of this page titled “Student activity.”
Part 1. Laboratory preparation

Activity 1-1 – Background reading, continued.

Once you have read this excerpt several times, please answer the following 5 questions.

1. What are plates (tectonic plates) in the Earth’s crust? (In other words, what is the definition of a tectonic plate?)

2. What are the two types of plate boundaries where volcanoes are common?

3. What is a hot spot? (In your answer, name an example.)
Part 1. Laboratory preparation

Activity 1-1 – Background reading, continued.

4. Describe what is happening at a spreading center (see the figure in the excerpt reading).

5. Describe what is happening at a convergent boundary in an oceanic setting (see the figure in the excerpt reading).

Write your answers IN YOUR LAB BOOK and bring them to your lab class or submit as your lab teacher asks.
NOTE – This is the end of the typically required pre-lab preparation work. After finishing this work, you are expected to look ahead at Parts 2 and 3 in your lab book before going to your weekly laboratory.

However, your lab teacher may require you to do additional pre-lab work beyond this point. If so, please do that assigned work and bring it to lab along with Part 1. All lab work should be written in your lab book.

The following abbreviated versions of Parts 2 and 3 of this laboratory contain the internet web links, if any, that are given in your lab book. These are clickable links.

THE FOLLOWING PAGES NOT COMPLETE VERSIONS OF PARTS 2 and 3 IN YOUR LAB BOOK. AGAIN, ONLY WEB LINKS FOLLOW.
Part 2. Laboratory activity

SEE YOUR LAB BOOK FOR ALL QUESTIONS.

HERE ARE THE CLICKABLE LINKS IN THIS PART -

http://www.auburn.edu/academic/classes/scmh/1010/Plate_tectonics_data_collection_activity.pdf

http://en.wikipedia.org/wiki/Plate_tectonics


http://en.wikipedia.org/wiki/Iceland_hotspot
Part 3. Laboratory retrospective activity

SEE YOUR LAB BOOK FOR ALL QUESTIONS.

HERE IS THE CLICKABLE LINK IN THIS PART -