NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_LAB MEETING DAY/TIME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Lab 1, Part 1 -KEY

For the first part of Lab 1, you will be using an open access lab manual chapter: <https://uhlibraries.pressbooks.pub/thestoryofearthv2/chapter/chapter-0-skills2e/>

You will record your answers on this document. Be sure to read ALL text of the lab as you work through the exercise – there is valuable information in the readings that will help you complete the exercises. **BELOW, WRITE YOUR ANSWERS AS DIRECTED IN THE LAB.**

# **Exercise 0.1 – Observing and Sketching Part 1**

**Sketch Area:**

***Should have a sketch here of their own depiction of figure 0.1 (Mt St Helens) with some annotations of observations.***

# **Exercise 0.2 – Observing and sketching Part 2**

**Sketch area:**

***Should have a sketch here of a geologic feature they look up. Needs to include a scale and some brief comments***

# **Exercise 0.3 – True Sizes of landmasses**

**a.**

***Should list a country similar in size to their own country (answers will vary)***

**b.**

***At higher latitudes, the shape of the country is more distorted and appears larger.***

**c.**

***China, Australia, Brazil***

# **Exercise 0.4 – SKIP THIS SECTiON**

SKIP THIS SECTION

# **Exercise 0.5 – Plotting data**

**Record the data as instructed by your TA.**

***Should have a record here of the data collected (Spring 2024 – How far is your home from West Lafayette?)***

**Create a graph of your data, here:**

***Should draw a graph of the data here. Several different graph types work for this data.***

**a.**

***Should write some conclusions here that can be drawn from the data.***

# **Exercise 0.6 Ship Rock**

Use Figure 0.9 and the Google Earth link to answer the questions.

**a.**

***The dikes protrude up from the landscape, while the wash valleys cut into the landscape.***

**b.**

***Should see 3-6 dikes.***

**C.**

***Shiprock is a volcanic neck. Therefore, before erosion, it looked like a volcano (a mountain)***

**d.**

***The letters represent the time period of the rock formation. For example, J means Jurassic***

**e.**

***The other letters represent the name of the rock formation.***

**f.**

***On the map, Shiprock is identified in a red color and labeled Ttb.. According to the legend, it is a Tuff-breccia, an igneous rock***

**g.**

***The rock around Shiprock on the map isa brown color and labeled Kmu. According to the legend this is Mancos shale, a sedimentary rock.***

# **When you have finished part 1, ask your TA for PArt 2**