**Earth Science NJASK Review Names:**

**Plate Tectonics**

Go to: http://www.learner.org/interactives/dynamicearth/drift.html

1. Which picture did you select on the first screen? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2, What does the picture on the left represent? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Click How Do we Know this**

3. Create a timeline of plate movement

4. What does the modern plate tectonics theory state?

**Click on Continents Over Time**

5. Describe the change from 225 million years ago to today. (Draw or Explain)

6. Bonus Question: Which of the images above represents the earth as it might appear 250 million years from now? (Choices A-D)

**Click on Plate Boundaries**

7. Describe the three different types of boundaries (Draw or Explain).

**Click Plates and Boundaries Challenge**

Record your score and time.

Score: \_\_\_\_\_\_

Time: \_\_\_\_\_\_

Teacher's Initials \_\_\_\_\_\_\_

**Slip Slide and Collide**

8. Roll your mouse over each word and give a brief description.

**Plate interactions challenge**

**9.** Record your score and time.

Score: \_\_\_\_\_\_

Time: \_\_\_\_\_\_

Teacher's Initials \_\_\_\_\_\_\_

**Test Skills**

**10.** Record your score and time.

Score: \_\_\_\_\_\_

Time: \_\_\_\_\_\_

Teacher's Initials \_\_\_\_\_\_\_

**The Rock Cycle**

<http://www.learner.org/interactives/rockcycle/index.html>

* **Open the Interactives Rock Cycle in a different window.**

This interactive web site will help you to review the types of rocks and the processes that occur within the rock cycle. Instructions given on the web site will lead you through the different sections of material.

* **To begin, click on the link entitled: “Begin with Types of Rocks.”**

The tutorial will review the three rock families and provide you with a list of key characteristics that can be used to place samples within the three rock families.

* **When you have read through this section, click on the next link: “Start your rock collection.”**

In this part of the tutorial, when you click on the rock sample, you will be provided with the name of the rock as well as information on how the rock forms and where it can be found. Make sure to add the rocks to your collection.

* **The next section, “Identify Rock Types”, will allow you to test your ability to recognize rock characteristics and types. Note: this section is timed (six minutes…more than enough time to complete the activity).**
* **When you have completed this self-test, go on to the next section, which describes How Rocks Change. Be sure to view the animation sequences provided for each rock family!**
* **At the end of this section, complete the self-test Transform the Rock to see if you can identify the processes that can change rocks from type to another.**
  + Score: \_\_\_\_\_\_\_\_\_ Time: \_\_\_\_\_\_\_\_\_\_ Teacher Initials: \_\_\_\_\_\_\_

This self-test is timed (six minutes); to complete the sequence, click and drag your answer into the appropriate box.

* **The next section describes the rock cycle and also includes a self-test Complete the Rock Cycle to see if you can name the different parts of the rock cycle.**
  + Score: \_\_\_\_\_\_\_\_\_ Time: \_\_\_\_\_\_\_\_\_\_ Teacher Initials: \_\_\_\_\_\_
* **The final activity at the web site is a Test Your Skills assessment to see how much you have learned.**

Enter your first and last names in the space provided. When you have completed the assessment, print out your results. If you do not receive an 80% or above go back and re-take the test. Make sure that you print out the complete results. Do not just print your score. You must hand in the printout with all of the graded questions to get credit.

**Weather**

<http://www.edheads.org/activities/weather/>

* Click Start Here
* Select Predict the Weather
* Select Level 1
* Follow the on screen instructions
* Print results at the end of the level

**Volcanoes**

**Go to:** [**http://dsc.discovery.com/convergence/pompeii/interactive/interactive.html**](http://dsc.discovery.com/convergence/pompeii/interactive/interactive.html)

1. Before you click enter answer the following question: What are volcanoes?

**Click Enter**

1. Where are volcanoes found?

**Click Volcano Types on the left side of the website**

1. Complete the chart below for the types of volcanoes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type of Volcano | **Size/Shape** | **Degree of Eruptions** | **Type of Magma** | **Famous Volcano** |
| Stratovolcano |  |  |  |  |
| Cinder cone |  |  |  |  |
| Shield |  |  |  |  |

**Click on Inside a Volcano**

1. Draw and label a picture of the inside of a volcano.

**Click on Build Your Own Volcano**

1. Create the at least four different volcanos with varying conditions. Predict the type of volcano these conditions will create and explain the results after you erupt the volcano.

|  |  |  |  |
| --- | --- | --- | --- |
| Viscosity | Gas | Prediction | Result |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |