Name:

Date:

Period:

Internet Activity: Volcanoes-Forces of Nature

Log onto: <http://environment.nationalgeographic.com/environment/natural-disasters/forces-of-nature/?section=v>

Or search “National Geographic- Forces of Nature-volcanoes”

Click on the C:\Documents and Settings\kgiacobbe\Local Settings\Temporary Internet Files\Content.IE5\8S0FGO1L\MC900329250[1].wmf symbol to “choose a force”.

Read “What is a volcano?” information and answer the following questions:

1. What did Ancient Greeks & Romans believe about volcanoes?
2. What is a volcano?
3. What can be the result if a volcano erupts suddenly in a heavily populated area?
4. In what ways can volcanoes be beneficial to humans?

Click on the **2** at the top of the webpage.

Read “Where do volcanoes occur?” information and answer the following questions:

1. Approximately \_\_\_\_\_\_\_\_\_\_ volcanoes are active today or known to have been active in historical times.
2. Most volcanoes occur at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .

Click on the **3** at the top of the webpage.

Read “How do volcanoes form?” information, follow directions in that section and answer the appropriate questions:

1. Click on the volcano all the way to the left and read ALL OF the information presented.

Define what an **island-arc** volcano is:

1. Click on the next volcano. Read all of the information provided and answer the following questions:
   1. What is a **hot spot**?
   2. Name one **island** that was formed by a **hot spot**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Click on the next graphic. Read all of the information provided and answer the following questions:

1. Describe what’s happening at a **spreading center**.

Click on the next volcano. Read all of the information provided and answer the following questions:

1. Define what a subduction zone is:
2. Subduction volcanoes tend to be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ stratovolcanoes.
3. What is the name of the famous belt of volcanoes in the Pacific that is formed because of subduction?

Click on the next graphic. Read all of the information provided describe how **Africa’s Great Rift Valley** formed:

Click on the **4** at the top of the webpage. Read “Types of Volcanoes”. Click on and write a definition for these 4 types of volcanoes: cinder cone, caldera, composite, shield

|  |  |
| --- | --- |
| Cinder cone: | Caldera: |
| Composite: | Shield: |

Click on the **5** at the top of the webpage. Read “How do volcanoes Erupt” and answer the following questions:

Two important traits that characterize volcanoes are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

What factor determines whether an eruption is explosive or non-explosive?

1.

2.

What is viscosity?

List the four ways that volcanoes can erupt

1.

2.

3.

4.

Click on the **6** at the top of the webpage. Read the “Make your Own Volcano” information and get ready to have some fun!

Locate the “See Different Types of Volcanoes Erupt” area near the bottom of the page. Select a volcano type from the “choose a volcano” drop down menu, then click “erupt”. Watch the animated volcanic eruption carefully and read the information presented. Click the “Try Again” link and repeat this for all of the types of volcanoes listed.

Which type of volcano would you determine to be the most explosive?

Click on the “**Case Studies”** tab at the top of the page. Click on a number (1-6) to read and learn more about a famous volcano. Be sure to look at the pictures and view any available movie clips…and remember to read the captions of course! Repeat this step to learn about all 6 famous volcano case studies, if time allows. Have a blast!