

Name \_\_\_\_\_ period \_\_\_\_\_ date assigned \_\_\_\_\_ date due \_\_\_\_\_ date returned \_\_\_\_\_

**CATASTROPHIC EVENTS****TORNADO**

List the main features of the natural disaster:

How does it form (what causes it):

Is it caused by weather, a force in the Earth, and/or humans? There may be more than one answer:

Where on the Earth is it most likely to occur:

When is it most likely to occur:

Is there any warning time? If so, how long?

Describe how it can change the land:

Describe how it can effect plants/animals:

Describe how it can effect humans:

**HURRICANE**

List the main features of the natural disaster:

How does it form (what causes it):

Is it caused by weather, a force in the Earth, and/or humans? There may be more than one answer:

Where on the Earth is it most likely to occur:

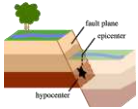
When is it most likely to occur:

Is there any warning time? If so, how long?

Describe how it can change the land:

Describe how it can effect plants/animals:

Describe how it can effect humans:



## EARTHQUAKE

List the main features of the natural disaster:

How does it form (what causes it):

Is it caused by weather, a force in the Earth, and/or humans? There may be more than one answer:

Where on the Earth is it most likely to occur:

When is it most likely to occur:

Is there any warning time? If so, how long?

Describe how it can change the land:

Describe how it can effect plants/animals:

Describe how it can effect humans:



## TSUNAMI

List the main features of the natural disaster:

How does it form (what causes it):

Is it caused by weather, a force in the Earth, and/or humans? There may be more than one answer:

Where on the Earth is it most likely to occur:

When is it most likely to occur:

Is there any warning time? If so, how long?

Describe how it can change the land:

Describe how it can effect plants/animals:

Describe how it can effect humans:



## FLOOD

List the main features of the natural disaster:

How does it form (what causes it):

Is it caused by weather, a force in the Earth, and/or humans? There may be more than one answer:

Where on the Earth is it most likely to occur:

When is it most likely to occur:

Is there any warning time? If so, how long?

Describe how it can change the land:

Describe how it can effect plants/animals:

Describe how it can effect humans:



## DROUGHT

List the main features of the natural disaster:

How does it form (what causes it):

Is it caused by weather, a force in the Earth, and/or humans? There may be more than one answer:

Where on the Earth is it most likely to occur:

When is it most likely to occur:

Is there any warning time? If so, how long?

Describe how it can change the land:

Describe how it can effect plants/animals:

Describe how it can effect humans:



### **WILDFIRE**

List the main features of the natural disaster:

How does it form (what causes it):

Is it caused by weather, a force in the Earth, and/or humans? There may be more than one answer:

Where on the Earth is it most likely to occur:

When is it most likely to occur:

Is there any warning time? If so, how long?

Describe how it can change the land:

Describe how it can effect plants/animals:

Describe how it can effect humans:

### **VOLCANO**

List the main features of the natural disaster:

How does it form (what causes it):

Is it caused by weather, a force in the Earth, and/or humans? There may be more than one answer:

Where on the Earth is it most likely to occur:

When is it most likely to occur:

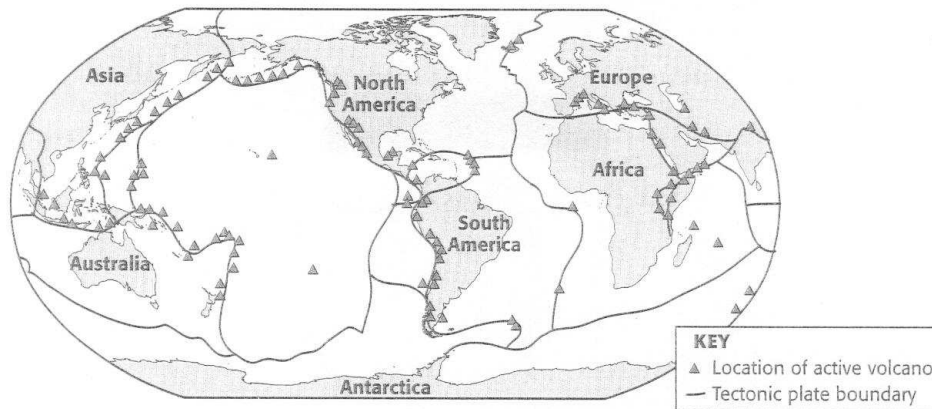
Is there any warning time? If so, how long?

Describe how it can change the land:

Describe how it can effect plants/animals:

Describe how it can effect humans:

- 1 If a large volcano that is on an island erupts, it will impact the local ecosystem. Which of the following is NOT a way the volcano will affect the local ecosystem?
- A The lava from the volcano will heat up the air in the local area and kill all life in the area.
  - B Lava will run down from the volcano, burning down all of the trees around the volcano
  - C When the volcano erupts, it will throw dust into the air affecting plants across the planet.
  - D The magma will run into the ocean around the island killing coral reef animals.



- 2 Based on Shane's map, which continent has the fewest active volcanoes?
- A North America
  - B Africa
  - C Europe
  - D Australia

**3** Predict what might happen to the soil in an area affected by seasonal drought and then by wildfires.

**A** Ash from the wildfires would add moisture to the soil.

**B** Plants would be destroyed, allowing the soil to erode.

**C** Groundwater would percolate up through the soil.

**D** No changes would occur.

**4** What is one condition that is necessary for a hurricane to form?

**A** warm ocean water

**B** a strong cold front

**C** cold ocean water

**D** a strong warm front

**5** In 1989, a tanker carrying oil struck a reef and spilled 11 million gallons of oil in an Alaskan bay. The oil not only spilled into the harbor, but also washed up on the shoreline. The spill killed millions of fish, birds that lived on the shore, sea otters, porpoises, seal lions and many whales. Every form of life in the area was affected. Scientists have carefully studied the area and its species since the initial spill to determine both short-term and long-term effects.

Which of the following was affected the least by this catastrophic event?

**A** plants along the shoreline

**B** fishermen in the area

**C** migratory sea birds

**D** crustaceans that lived on the bottom of the bay

**6** During a landslide, many tons of rock slide down a hill in a very short time. A landslide would MOST LIKELY force animals living in the area to —

- A** move to a new area
- B** develop new adaptations
- C** uncover all the buried plants
- D** develop different types of diets

**8** A landslide carries many tons of rock from a hillside into a valley. All of the plants in the valley are buried. New plants that begin to grow in the valley after the landslide will MOST LIKELY lack —

- A** clean air
- B** rich soil
- C** bright light
- D** fresh water

**7** Which of the following events is most likely to cause an environmental disturbance in a grassland biome?

- A** earthquake
- B** volcanic eruption
- C** hurricane
- D** fire caused by lightning

**9** A large volcanic eruption can produce a cloud of ash that can impact the world's climate for some time. A cloud of ash that blocked out the sun for four months would MOST LIKELY have which of these effects?

- F** higher temperatures on Earth and increased rates of photosynthesis
- G** large amounts of precipitation and flooding of coastal areas
- H** lower temperatures and slower rates of plant growth
- J** high rates of extinction among reptiles and amphibians

**Extension:**

- 10** Wildebeest are cow-like animals with horns. They migrate in herds across Africa in search of the grasses they feed on. Wildebeest are prey for lions.

Predict the impact that a drought would have on the wildebeest population. You should include information on what the wildebeest population would have to do in order to survive.




- 11** The Texas coast is frequently hit by hurricanes. Give three ways a hurricane can impact the Texas ecosystem.


- 12** In the year 2000, more than 225 million acres of forests were burned throughout the world. A forest fire can have a dramatic effect on the plants and animals that live in a forest. Describe one negative and one positive effect of a forest fire.




**13** In the year 2000, more than 225 million acres of forests were burned throughout the world. A forest fire can have a dramatic effect on the plants and animals that live in a forest. Describe one negative and one positive effect of a forest fire.


**14** Hydroelectric power plants use large dams to form large reservoirs of water. Describe two changes in plant and animal life in the area that is filled by the reservoir.


**15** In some tropical areas, farmers clear large sections of rainforest by burning all the trees. The ashes from the fire add nutrients to the soil. The cleared land is farmed for several years until the nutrients are used up and the soil can no longer support crops. Then, a new area of land is cleared. Often, tropical plants cannot grow back to replace the farmland.

Identify some of the negative effects this farming practice has on the local ecosystem.
