NATURE®

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Predicting Volcanic Eruptions Organizer Answers

Page 2:

Describe two changes that occurred on the surface of the dome as the magma moved upward?

1.___movement of thrust fault increased_____

2.____tilt increased_____

Page 3:

In the weeks and days before the eruptions, what happened to the distance between the metal stakes?

_____the distance between the stakes grew shorter as thrust faults moved_____

_____the stakes moved more quickly_____

How did the observations described in the previous question affect the scientists' predictions?

_____this indicated to scientists that there was a pattern to which actions occurred before an eruption_____

Page 4:

What happened to the crater floor just before eruption? _____the angle of the ground

changed. The crater floor tilted outward away from the dome._____

Page 5:

Describe one method scientists use to analyze earthquake data.

_____one way to analyze the data is to plot the number of earthquakes that occur beneath a volcano every day_____

What happens to earthquakes before an eruption? _____the number of earthquakes_

____increases right before an eruption, but not the size of the earthquakes_____