

**NOVA: "Mystery of the Megavolcano"**

name: \_\_\_\_\_

Use complete sentences on those questions marked with an asterisk (\*). **WORK ALONE!**

1. What did Zielinski discover in the Greenland ice core in the layer that formed about 75,000 years ago?

2. Rampino's sea-floor sediment showed that a rapid cooling event happened \_\_\_\_\_ years ago.

3. \*If a scientist sends a sample of ash to John Westgate', what can he determine?

4. \*What shocked Westgate about all of the samples he was given?

5. \*Besides its steep profile (slope), what is the other strange feature that Chesner discovered around Lake Toba?

6. Any volcano that expels at least 240 cubic miles of magma (in the form of lava and ash) is referred to as a \_\_\_\_\_.

7. \*Explain how sulphur gas from a volcano can cause global cooling (2 steps).

1. \_\_\_\_\_ Combined with \_\_\_\_\_ to form a mist.

2. This mist \_\_\_\_\_.

8. \*According to Drew Shindell, how did snow that fell during the Toba cooling event continue to cool the planet?

9. \*How does Chesner know that Toba is still an active volcanic system (has magma beneath it)?

10. When was the last explosive eruption of the Yellowstone Supervolcano? (Sit quietly for the last couple minutes of the video, and then send your sheets to your left.)

\_\_\_\_\_ years ago