



Read the passage.

## Volcanoes

*There are thousands of volcanoes on Earth, many of which are active, which means that they have recently erupted, or may, in the foreseeable future, erupt. Fortunately, none of the 200 volcanoes found on the west coast of Canada – in British Columbia and Yukon – are considered active. In fact, there has not been an active volcano in Canada for over two hundred years. Inactive volcanoes that show no signs of unrest are described as “dormant”.*

*While our initial thoughts of volcanoes make us envision the disruption and chaos that are created by the eruptions, volcanoes are actually vital to humanity’s continued life. We need volcanoes to erupt for a variety of reasons.*

*First of all, when a volcano erupts, it creates new land and releases water vapour and carbon dioxide in great quantities. Crucial gases that are essential to Earth’s atmosphere are also released. Some of the by-products of a volcanic eruption are volcanic ash, which becomes great fertilizer; hot water, which is used for heating and bathing; and steam, which is used for electricity. Volcanic rocks are another by-product. Lightweight volcanic rocks are used for making roadbeds and as an aggregate in the making of cement. Even the mud left over is used in drilling for oil and gas wells.*

*A volcanic eruption brings to the surface of Earth many valuable and important resources, like copper, diamonds, and gold. Ancient deposits associated with volcanic eruptions are among the most important sources of gold in Canada. Base metals like lead and zinc come from ancient seafloor volcanoes.*

**A. Complete the chart.**

**How a Volcanic Eruption Benefits Humanity**

- creates 1. \_\_\_\_\_
- releases large quantities of 2. \_\_\_\_\_ and 3. \_\_\_\_\_
- brings resources like gold, 4. \_\_\_\_\_, and 5. \_\_\_\_\_ to Earth's surface
- uncovers base metals like 6. \_\_\_\_\_ and 7. \_\_\_\_\_
- forms by-products:
  - 8. \_\_\_\_\_ as great fertilizer
  - 9. \_\_\_\_\_ for electricity
  - 10. \_\_\_\_\_ for roadbeds
  - 11. \_\_\_\_\_ for heating and bathing
  - 12. \_\_\_\_\_ used in oil-drilling



**B. Answer the questions.**

1. What is the difference between an active volcano and a dormant volcano?

\_\_\_\_\_

\_\_\_\_\_

2. Describe the volcanic activity in Canada.

\_\_\_\_\_

\_\_\_\_\_



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  - 9. steam for electricity
  - 10. volcanic rocks for roadbeds
  - 11. hot water for heating and bathing
  - 12. mud used in oil-drilling



**B. Answer the questions.**

1. What is the difference between an active volcano and a dormant volcano?

An active volcano has recently erupted or may erupt; a dormant volcano shows no signs of unrest.

2. Describe the volcanic activity in Canada.

All of the 200 volcanoes in Canada are considered dormant.