

Volcano Characteristics

Where Are Volcanoes?

- Volcanoes are found on convergent plate boundaries, divergent plate boundaries, and lithospheric plates away from boundaries (wherever the mantle is able to melt).
- Volcanic eruptions can occur in volcanic cones, domes, vents, and many other types of structures.

Study Tip

Why might be volcanoes located next to plate boundaries? Use what you have learnt in previous study concepts.

Creating Magma

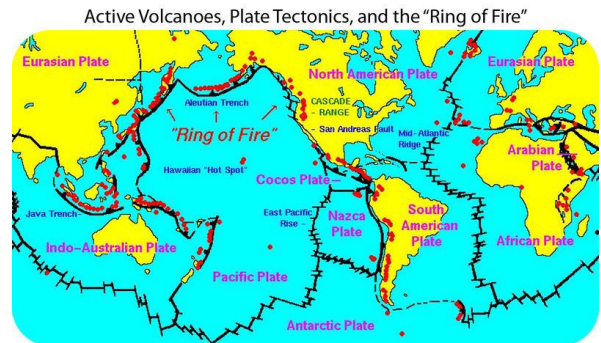
- Magma is created when mantle rock melts; this can be caused by high temperatures, low pressures, or added water.

Volcanic Stages

- **Active** volcanoes are currently erupting, or showing signs of eruption soon.
- **Dormant** volcanoes have no current activity, but have erupted recently.
- **Extinct** volcanoes have had no activity for a long time, and will probably not erupt again.

Concept Check

- Where are volcanoes found across the Earth?
- How is magma created?
- What are the three stages of a volcano? Describe what each one means.



Red spots indicate volcanoes; black lines are plate boundaries

