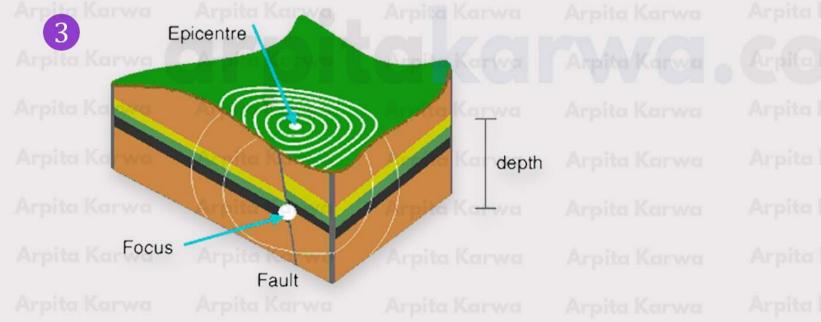
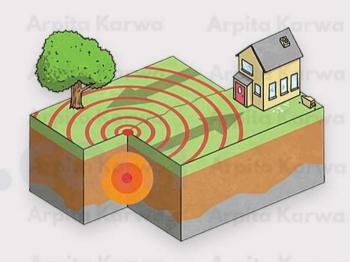
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- Lithosphere: Earth's crust + Uppermost part of the mantle
- Tectonic plates are located in the lithosphere





- 4 Earthquakes: Tremors produced by the passage of vibratory waves
- Waves produced spread out in all directions in the crust
- 6 Focus: Place of origin of the earthquake inside the earth
- 7 **Epicenter:** Point on the earth's surface vertically above the focus
- 8 Seismic Waves: Waves generated by an earthquake Seismology: Science of earthquakes is known as Seismic waves





- Difference between magnitude and intensity of earthquakes:
 - **Magnitude:** Determined by seismograph on Richter scale, developed by Charles Francis Richter (1935)
 - b Intensity: Modified Mercalli Scale describes the effects of an earthquake
- Causes of earthquakes:
 - a Volcanic Eruptions
 - **b** Faulting
 - C Plate Tectonics
 - d Anthropogenic factors





- Environmental effects of an earthquake:
 - a Panic
 - Deaths and casualties
 - Breakdown of public health infrastructure and civic services
 - d Physical damages
 - Disruption of economic activities





- **12** Mitigation Strategies:
 - a Relief and Rescue
 - **b** Use of Engineered Structures
 - Building Bylaws
 - d Public Awareness



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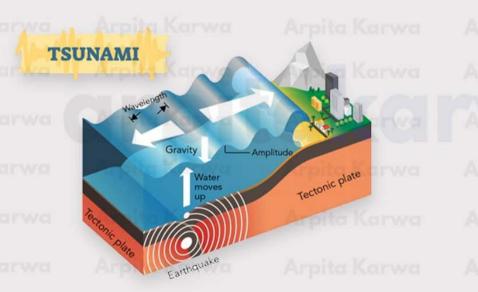
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SECTION 2 : TSUNAMI

Tsunami: Ocean wave produced by an earthquake, landslide or volcanic eruption







Waves reach very high and travel across the oceans



SECTION 2 : TSUNAMI

- 4 Formation of Tsunami:
 - Under Sea Earthquakes
 - Landslides
 - **C** Volcanic Eruptions
- Management and mitigation:
 - a Leaving the beaches and going to higher grounds
 - Stay away from rivers leading into the oceans
- Wait before everything is back to normal

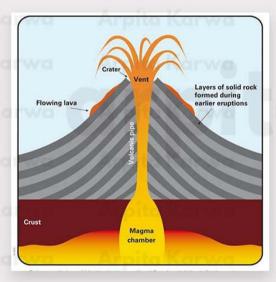




SECTION 3: VOLCANOES

Volcano: Sudden, violent explosion in the crust through

2



Many volcanoes are mountains as a result of this process



SECTION 3: VOLCANOES

- Types of Volcanoes:
 - Active volcanoes
 - Dormant volcanoes
 - **Extinct volcanoes**
 - Composite Volcanoes

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Active Volcano

SECTION 3: VOLCANOES

- 6 A volcanic eruption can:
 - Contaminate water supplies
 - Damage machinery
 - Reduce visibility through smog and harmful gases that may threaten low-lying areas.
- Make it hard to breathe and irritate the skin, eyes,



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