



Tsunamis

Anaiya, Jeremy, Nadya, Patrick, and Luvly



What is a Tsunami?

Tsunamis are the result to tectonic plate disruption which causes a series of waves to rise about sea level. This causes lots of destructions in coastal cities especially on the west coast. Signs of tsunamis are loud roar sounds like an airplane sound, unusual ocean behavior, like really low tides or a fast rising flood, and long and big earthquakes. There is also alerts that are sent out to devices in the area now that we have technology.



How is a tsunami formed?

01.

A tectonic plate disruption on the ocean floor, like earthquakes, volcanic eruptions, and coastal rock falls

02.

The energy from the tectonic plates is released, which causes the water to form heavy waves to travel

03.

The waves rise as they approach the surface and rise above sea level going at 20-30 mph.



Earth systems involvement

- **Geosphere:** The tectonic plates moving after a disruption
- **Hydrosphere:** The waves releasing the energy of the plate disruption in the form of a tsunami
- **Biosphere:** The event itself affects the habitats of many organisms who live there.

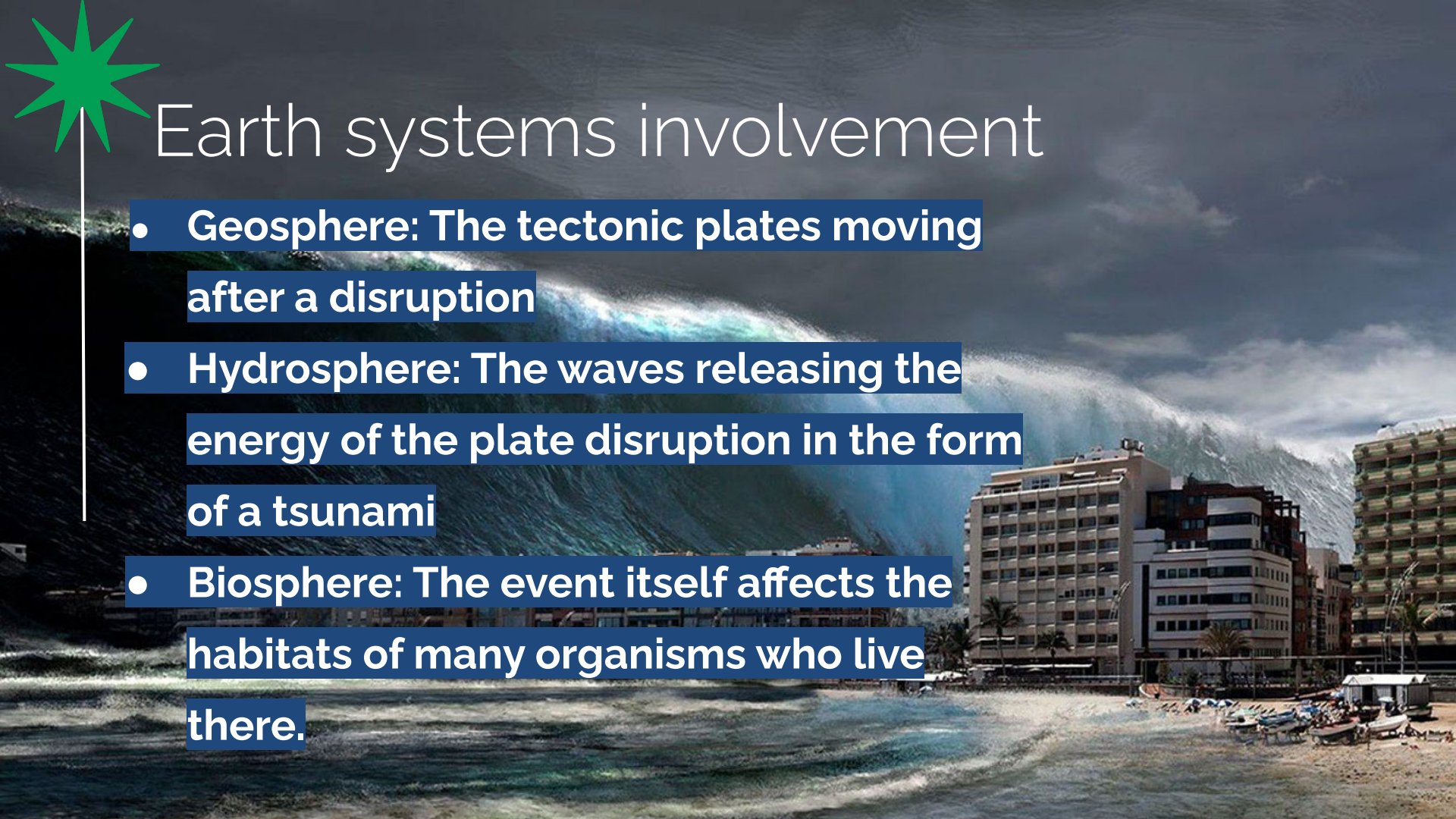
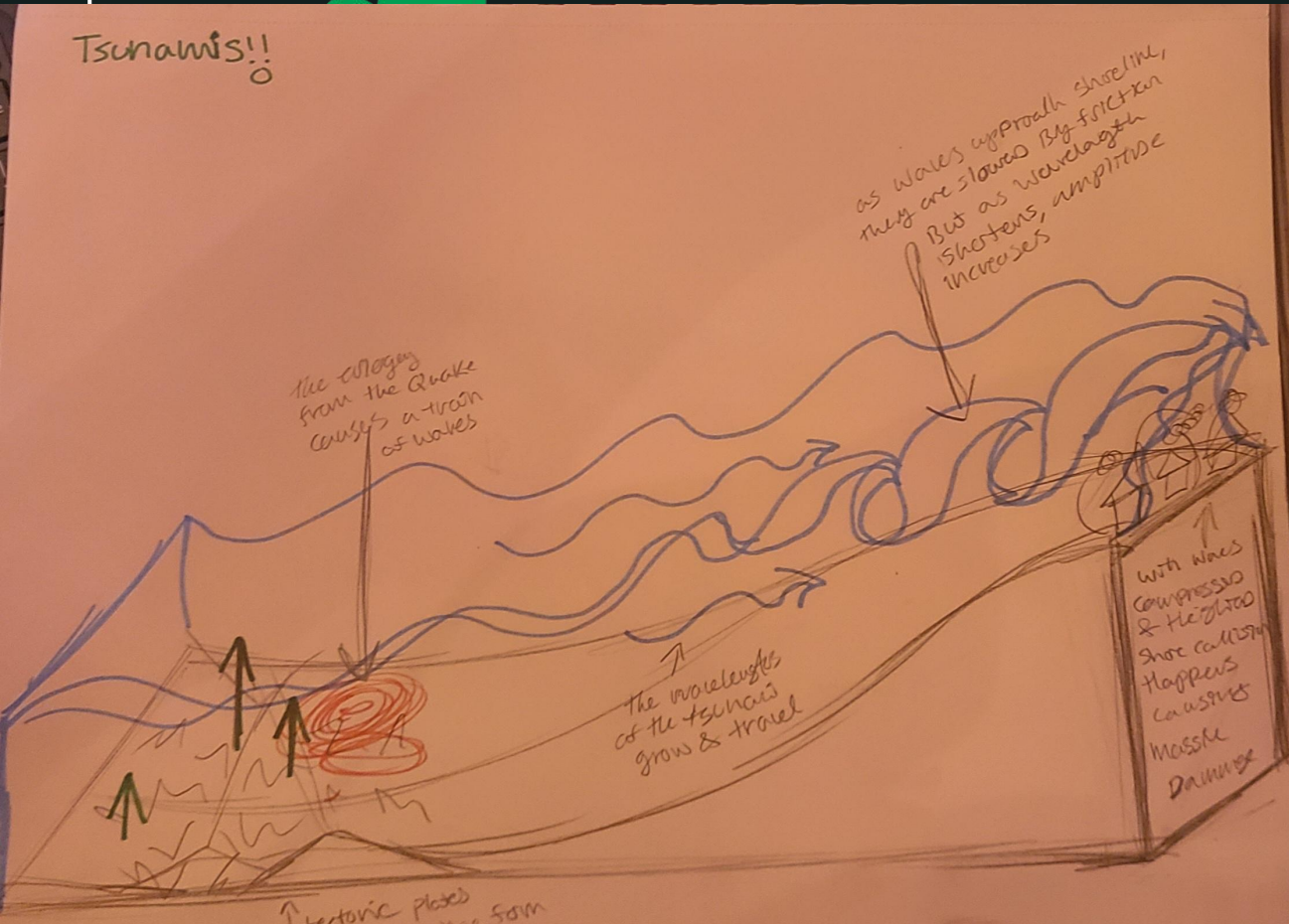


Diagram of a tsunami

Tsunamis!!



The energy from the quake causes a train of waves

as waves approach shoreline, they are slowed by friction. But as wavelength shortens, amplitude increases

The wavelengths of the tsunami grow & travel

with waves compressed & heighten shore collision happens causing massive damage

↑ tectonic plates move from

