

## Marine Science: Introduction to Ocean Waves

<http://oceanexplorer.noaa.gov/edu/learning/player/lesson09.html>

Name: \_\_\_\_\_

- 1: **Explain** how **individual water molecules** move in a wave.
- 2: **What** do waves transmit across the sea?
- 3: What is the **anatomy of a wave**? Include a photo
  - \* **Wavelength**
  - \* **Crest**
  - \* **Trough**
  - \* **Wave Height**
- 4: How does **wind** affect waves? **Explain.**
- 5: **When** do waves reach their maximum size? *How do we get large waves?*
- 6: What is a **wave train**?
- 7: What is a **rogue wave**? *How is this created?*
- 8: What happens to waves in shallow water? **Explain.**
- 9: What does **interaction between the waves and sea floor** cause?
- 10: **What** causes waves to bend or reflect?
- 11: Explain how we get waves to **break onto shore (swash).**
- 12: What are the **effects** of waves breaking on shore?
- 13: Explain the **difference** between a tsunami and “regular waves”.
- 14: **What things** can trigger a tsunami? *How are most formed?*
- 15: How are tsunamis different than “regular waves” when **they hit the shore**?