Marine Science: NOAA- Tides

Go to: http://www.montereyinstitute.org/noaa/

Tides

Name:
Answer the following questions (put onto your website)

- 1: What are **tides**?
- 2: What causes tides? Explain in detail (show diagram)
- 3: Where do tides occur?
- 4: **Explain-** High and low tides (difference)
- 5: Which object exerts the most force on the tidal bulge? Why?
- 6: What happens when the sun and moon **align**? What happens when they are **perpendicular** to each other?
- 7: What are some of the **other factors** that affect tides?
- 8: What are the **zones of the intertidal zone**?
- 9: What are some of the **challenges** for the critters of the intertidal zone? **Explain.**
- 10: How do the intertidal organisms COPE with the harsh environment?
- 11: What are some of the adaptations that help organisms cope with wave action?

Do: Predicting the Tides

Answer the questions with the animations- post on your website with diagrams and descriptions

Do: Life in the Intertidal Zone

Answer the questions with the animations- post on your website with diagrams and descriptions

Global Impact

What is the *global impact of tides*? **Explain.**

What are some of the challenges on coastal areas because of tides?

Explain how electricity can be generated by currents and tidal power.