

How do tides Neap and Spring tides work. What are the relative positions of the moon and the sun during Neap Tides and Spring Tides? Draw a picture and use words to explain the picture.

Describe the type of tides with the largest tidal range and then describe the type of tides with the smallest. Be sure to explain why this happens for each of them

Sketch a wave and list the 4 parts.

Draw the 7 major geologic formations of the seafloor

What is the purpose of midocean ridges

What is the deepest trench on Earth and how deep is it?

Explain two phenomenon that can happen when continental plates move AND how they happen.

Explain what is happening with the Coriolis Effect.

Why is this important for moving heat around the earth?

What forces are responsible for currents?

What influences the direction and nature of these currents?

What is a gyre?

How many gyres are there? Where are they? Draw a picture showing the major gyres.

Why do currents tend to flow around the outside of an ocean basin?

Be able to explain how the ocean conveyor belt works and where deep currents are formed. How does thermohaline circulation differ from wind-driven surface circulation? What is its general pattern?

Where are the 2 locations that the distinct deep-water masses form? How do they tie into the ocean conveyer belt? Why is the ocean conveyer belt important?

Describe the Ocean Conveyor Belt process using specific details for each ocean basin. Begin with water on the surface in the North Atlantic/Arctic.

Describe the effects of global warming on the ocean conveyor belt.

Be able to explain how high tides and low tides form and their relationship with the Moon and the Sun

Be able to explain the types of forces that cause waves.

Which currents carry warm water?

Which direction are the warm water currents always moving?

Which currents carry cold water? Which direction are the cold water currents always moving?

Define what an upwelling and downwelling is. What biological effects do each have?

List and describe each of the 3 types of breaking waves.