* Describe how the lunar and solar tidal bulges are formed
* Discuss the periodicity of ocean tides and the cause of unusual tides
* state the factors that determine mean sea level and discuss how sea level varies across the globe
* Illustrate ocean wave structure and nomenclature
* Discuss how waves refract as they approach shore and the currents associated with wave action along shorelines
* Describe the shoreline erosional and depositional features due to wave action
* Describe the global patterns of ocean surface currents and the factors that produce them
* Show how the major surface currents can modify climates of adjacent landmasses
* Describe the factors that produce subsurface ocean currents
* Trace the generalized deep thermohaline circulation currents on a world map.