

Review for waves and tides test

1. Review the definition of a wave and the anatomy of a wave (wavelength, height, peak, trough) and wave period.
2. Review Progressive and Orbital wave characteristics.
3. Review wave behavior with respect to wavelength, wave base, and bottom depth (including deep water, transitional and shallow water waves).
4. Review the factors that influence the development of wind driven waves.
5. Review disturbing and restoring forces.
6. Review the changes that occur when waves approach the shore and the characteristics of three types of breakers.
7. Review characteristics of tsunami waves in the open ocean and as they approach shore.
8. Review storm surges.
9. Review the causes of tides.
10. Review the definitions of lunisolar, syzygy and amphidromic points.
11. Review spring and neap tides and their causes.
12. Review diurnal, semidiurnal and mixed tidal cycles.