

**8<sup>th</sup> Grade 2<sup>nd</sup> Semester Test**  
**Chapters 13, 16, 18-21**

1. When a wave passes by, water particles move
  - a. Toward shore in a straight line
  - b. In a circular motion
  - c. Slowly toward the bottom of the ocean
  - d. In the opposite direction
2. The strength of a wave depends mainly on its
  - a. Wavelength
  - b. Frequency
  - c. Wave height
  - d. Trough
3. Tsunamis are most common in the
  - a. Indian ocean
  - b. Atlantic ocean
  - c. Pacific ocean
  - d. Arctic ocean
4. The total number of high tides that occur each day in most places is
  - a. Four
  - b. Two
  - c. One
  - d. Five
5. A spring tide occurs when
  - a. The moon and sun are at right angles to each other
  - b. It is spring in the Southern Hemisphere
  - c. It is spring in the Northern Hemisphere
  - d. The moon, sun, and Earth are in a straight line
6. Low tides occur about every
  - a. 6 hrs and 15 min
  - b. 12 hrs and 25 min
  - c. 24 hrs
  - d. 2 weeks
7. Two gases found in ocean water that are necessary for living things are
  - a. Oxygen and carbon dioxide
  - b. Oxygen and helium
  - c. Carbon dioxide and hydrogen
  - d. Hydrogen and helium