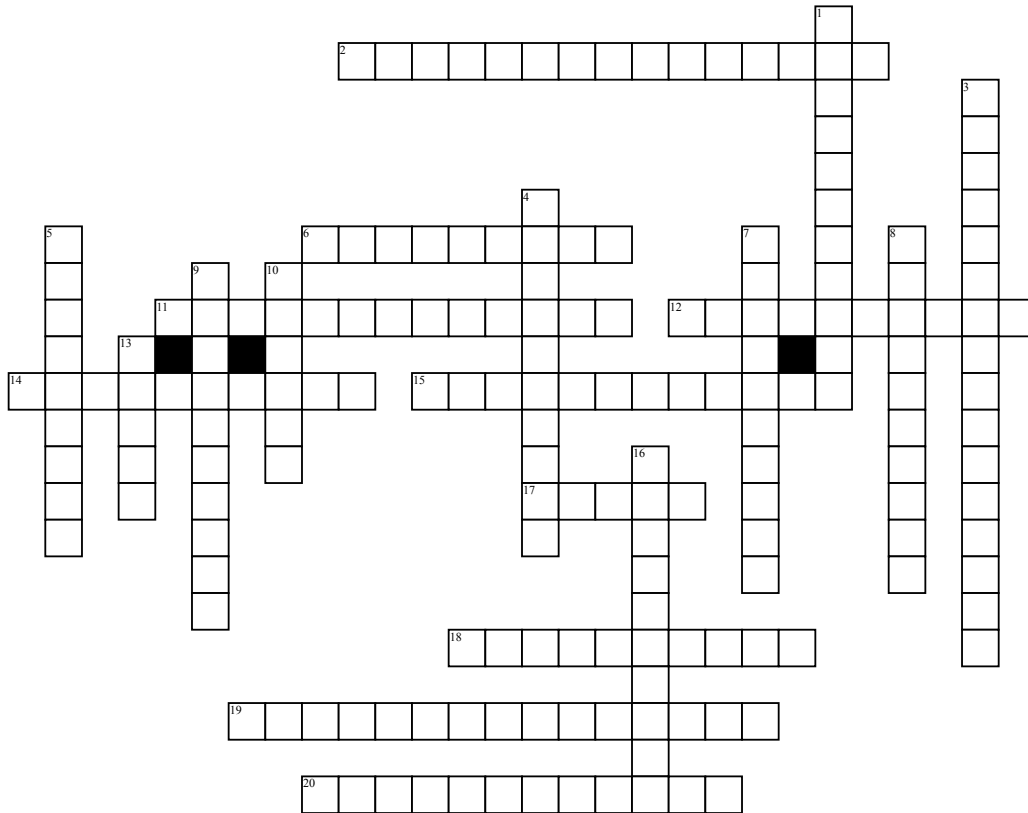


# Crossword Puzzle



**Across**

- 2. Occur because earth position relative to the sun continually changes as it travel along its orbit
- 6. The rising of cold water from deeper layers to replace warmer surface water
- 11. Narrow sandbars parallel offshore
- 12. Is the transfer of heat through matter
- 14. The time it takes one full wave
- 15. A layer that contains only a tiny fraction of atmosphere mass
- 17. These large whirls of water within an ocean basin
- 18. thins as you travel away from earth until there are too fewgas

- 19. Are vertical currents of ocean water currents of water that result from density differences among water masses
- 20. Beyond the troposphere

**Down**

- 1. Is a measure of the average kinetic energy
- 3. The currents flow parallel to the shore and move large amounts of sediment along the shore
- 4. The diffrence is height between successive high and low tides
- 5. Travel out in all directions from a source
- 7. The transfer of heat

- 8. Is the source of all clouds and precipitation
- 9. The vertical distance between trough and crest
- 10. Breakwaters and seawalls are some structures built to protect a coast from erosion or prevent the movement of sand along a beach
- 13. Nourishment is the addition of large quantities of sand to the beach system
- 16. Temperatures again decrease with height

**Word Bank**

- |             |              |              |                   |                  |
|-------------|--------------|--------------|-------------------|------------------|
| tidal range | Stratosphere | Temperature  | longshore current | Density Currents |
| wave height | Groins       | Convection   | seasonal changes  | gyres            |
| Radiation   | Beach        | water vapor  | Mesosphere        | Barrier island   |
| Conduction  | wave period  | Thermosphere | Atmosphere        | Upwelling        |