

## Section 1.0 Humans depend on water supply and quality.

Student \_\_\_\_\_

Class \_\_\_\_\_

## 1.1 The Distribution of Water on Earth

1. Because our planet has a lot of water on it's surface and is rich in vegetation, astronauts from space have described it as the ...
  - A Aqua planet
  - B Water world
  - C Blue planet
  - D Blue Green World
2. Of all the water on the Earth, the only water that is fit for humans to drink is called ...
  - A pure water
  - B potable water
  - C purified water
  - D spring water
3. **Models** are often used to help explain a concept that is important to visualize, to help you understand it. This glass of lemonade models the distribution of all kinds of water on the Earth.



- All of the frozen water on the Earth is represent in the model by the ...
- A lemon slice
  - B melted water
  - C lemonade
  - D ice cubes
4. Many substances are dissolved in freshwater and saltwater. This is because water is a solvent that is widely used to dissolve substances. '**Water**' is known as the ...
    - A universal solvent
    - B universal solute
    - C common solute
    - D common solvent

## 1.2 Water Quality

5. Most of the substances that are dissolved in water are salts. Not just sodium chloride, but many different kinds of salts. The total amount of all salts dissolved in the water is referred to as its ...
  - A quality
  - B salinity
  - C potability
  - D distillation
6. **Hard water** is water that contains high concentrations of dissolved ...
  - A Gold and silver
  - B Calcium and chlorine
  - C Hydrogen and oxygen
  - D Calcium and magnesium

7. Many organisms live in water. They require it for life, just as humans do. Organisms, such as bacteria, can cause very serious problems for humans. One of the most deadly organisms is *Escherichia Coli*, which can cause extreme sickness and even death. This organism is most often referred to as...
- A E coli
  - B E C B
  - C SARS
  - D West NILE
8. Water quality is a vital issue because many of the organisms, which can harm humans, are too small to see with the naked eye. Another organism, which can give humans intestinal problems, is Giardia, which is a microscopic ...
- A virus
  - B bacteria
  - C parasite
  - D fungus
9. When testing samples of water for the presence of living organisms, the students put 125ml of their samples into separate flasks and added 5 drops of **bromothymol blue**. They labeled it, put a stopper in it and placed it in a warm dark place for 24 hours. What were they looking for, to indicate that living organisms were present in the water?
- A A temperature change
  - B A color change
  - C The presence of bubbles
  - D A decrease in water level
10. Two common processes are used to change saltwater into freshwater. When saltwater is forced through a filter, or membrane with holes too small for the salt to fit, the process is called ...
- A dissolving
  - B distillation
  - C able osmosis
  - D reverse osmosis