Section 1

1. Which is most responsible for the uneven heating of the air in the atmosphere?
   1. Radiation c. conduction
   2. Convection d. condensation
2. What do you call a material that does not allow electricity to flow through it?
   1. Conductor c. insulator
   2. Glass d. static
3. Which of these is the best conductor of electricity?
   1. Copper penny c. plastic tubing
   2. Glassrod d. cotton string
4. Their molecules are tightly packed together.
   1. Solids b. liquids c. gases
5. The thin layer around the earth’s surface made of rocks and minerals is called the
   1. Core b. mantle c. crust
6. The sum of the number of protons and neutrons results in an atom’s
   1. Atomic number c. atomic mass
   2. Electrons d. pH scale
7. Similar to the stars and the sun, the moon makes its own light.
   1. True b. false
8. The outer planets are called terrestrial planets.
   1. True b. false
9. The thick, hot, rocky layer around the outer core is called
   1. The mantle c. the inner core
   2. The crust d. the atmosphere
10. What are the three major types of rocks?

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1. Sound is produced when matter
   1. Freezes c. mixes
   2. Vibrates d. absorbs
2. What causes moonlight?
   1. Reflected light from the sun
   2. Glowing dust on the Moon
   3. Lights on the Moon made by humans
   4. Fusion in the Moon
3. A satellite traveling around an object in a curved path is said to be
   1. In orbit b. falling c. circling d. lost
4. The axial tilt affects what?
   1. Days b. years c. seasons
5. An example of a chemical change is
   1. Boiling c. melting
   2. Burning d. freezing
6. What is a good sign that a chemical change has occurred?
   1. The substance seems to have disappeared
   2. The state of matter has changed
   3. The production of heat, light and smoke
7. Thermal energy always moves from warmer to cooler
   1. True b. false
8. Liquid particles move slower than gas particles.
   1. True c. false

Section 2

1. When you add hot water to cold water, the cold water warms up because of
   1. Insulation c. radiation
   2. Convection d. solar energy
2. Which country was able to put the first human in space?
   1. Japan c. Soviet Union
   2. China d. United States
3. What happens to the light on a black surface?
   1. It reflects
   2. It scatters
   3. It gets absorbed
4. What instrument is typically used to measure seismic waves?
   1. Sonograph c. sermograph
   2. Seismograph d. radar
5. What are the different shapes of the moon seen from earth called? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Which statement describes how the sun and the planets of our solar system are related?
   1. Planets revolve around the sun
   2. The sun revolves around the planets
   3. Planets rotate on their axes
   4. The sun rotates on its axis
7. An ecosystem is
   1. Affecting a certain population
   2. All living and non-living things in a particular area
   3. An increase in the earth’s temperature
   4. Organisms that make their own food
8. Light that bounces off a mirror is called a \_\_\_\_\_\_\_\_\_\_\_\_\_
9. The length of time it takes for earth to rotate on its axis is called a
   1. Season b. month c. year d. day
10. What layer of earth do the lithosphere plates float on?
    1. Asthenosphere c. inner core
    2. Mantle d. crust
11. What force keeps the moon in orbit around the earth? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
12. \_\_\_\_\_\_\_\_ absorbs energy from sunlight and is needed by plants.
    1. Chloroplasts c. cell wall
    2. Photosynthesis d. chlorophyll
13. As the lit portion of the moon that we see gets larger, the moon is said to be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
14. 200 million years ago the earth was connected as a super-continent called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
15. Plants convert the Sun’s energy into sugar through a process called
    1. Photography c. transpiration
    2. Evaporation d. photosynthesis
16. Which word below is used to describe something living?
    1. Biotic b. abiotic c. fauna
17. All the \_\_\_\_ revolve around the sun in the same direction
    1. Stars c. comets
    2. Moons d. planets

Section 3

1. \_\_\_\_ is the process that lays down (drops) sediment in a new location.
   1. Erosion c. weathering
   2. Deposition d. meandering
2. Process that breaks rocks down into tiny pieces is called
   1. Weathering c. freezing
   2. Melting d. erosion
3. Light shines clear through objects that are
   1. Opaque c. shiny
   2. Transparent d. translucent
4. Part of the plant that connect the stigma and the ovary
   1. Style b. stigma c. petal d. filament
5. What is the name of the cells responsible for the stomata opening and closing?
   1. Chlorophyll c. guard cells
   2. Sepal d. seeds
6. Protective leaf-like enclosure for the flower bud
   1. Petal b. sepal c. pistil d. style
7. Anything that has mass and takes up space \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Where do earthquakes usually occur?
   1. Near plate boundaries c. near oceans
   2. Anywhere d. near active volcanoes
9. An organism that survives by living on or another animal and feeding on the animal is called a/an
   1. Arachnids c. earthworm
   2. Parasite d. cnidarians
10. The part of the pistil that receives the pollen
    1. Style c. stigma
    2. Anther d. sepal
11. The place where pollen is developed and stored
    1. Pistil c. style
    2. Anther d. ovary
12. A physical change means that
    1. Matter has changed from one substance into another
    2. No new substance is produced and its identity stays the same
    3. Matter becomes stronger
13. The basic building blockers of elements are called

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_ is the process by which water is lost through a plant’s leaves
   1. Photosynthesis b. precipitation c. transpiration
2. What is a tectonic plate?
   1. Liquid magma
   2. Technical term used for dinnerware
   3. Lave flowing into the ocean
   4. The moveable crust on top of the earth’s mantle
3. Plate boundary where two plates move away from each other
   1. Convergent b. transform c. divergent
4. A disturbance that transfers energy from place to place
   1. Medium c. wave
   2. Energy d. compressions

Section 4

1. What are biotic factors?
   1. Living factors b. non-living factors
2. When seeds germinate, roots grown downward and stems grow upward in response to gravity. This response to gravity is called \_\_\_\_\_\_\_
   1. Phototropism c. thigmotropism
   2. Geotropism d. hydrotropism
3. An organism that makes its own food is known as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Bob adds heat to a liquid substance. When enough heat is added,
   1. Its particles move farther apart and the substance becomes a gas
   2. Its particles move closer together and the substance becomes a solid
   3. Its particles move farther apart and the substance become a solid
   4. Its particles move closer together and the substance becomes a gas
5. When liquid lemonade is placed in a freezer, its temperature slowly drops. Its molecules move less and less until they can only vibrate in a rigid structure. Which of the following is another way to describe this process?
   1. Heat is removed from the lemonade, causing it to become a solid
   2. Heat is removed from the lemonade, causing it to remain a liquid
   3. Heat is added to the lemonade, causing it to become a solid
   4. Heat is added to the lemonade, causing it to become a gas
6. Substances have more energy of motion in the \_\_\_\_ state than in the \_\_\_\_\_\_\_\_ state
   1. Solid; liquid c. solid; gas
   2. Liquid; gas d. gas; solid
7. If the average movement of the particles in a sweater increases, what will happen to the sweater’s temperature?
   1. It will change after a long delay c. it will decrease
   2. It will increase d. it will not change
8. Which of the following increases the motion of atoms and molecules?
   1. Decreasing the temperature c. adding another substance
   2. Increasing the temperature d. removing a substance
9. June is building a circuit. She wants to add something that will conduct electricity. June wants to add \_\_\_\_\_\_\_\_ to her circuit, so she chooses\_\_\_\_
   1. An insulator, plastic c. a conductor, copper wire
   2. a conductor, plastic d. an insulator, a copper wire
10. A hot saucepan is place on a cold bench. Heat will flow from the saucepan to the bench until
    1. The saucepan has lost all of its heat
    2. The bench is as hot as the saucepan was
    3. The saucepan and bench are at the same temperature
    4. The bench is warmer than the saucepan
11. Which of the following is an example of convection?
    1. A hot object transferring heat to a cooler one
    2. Hot air rising and cooler air falling
    3. The rays of the Sun warming the earth
    4. A hot oven warming the air around it
12. A \_\_\_\_\_\_\_\_\_ wave is an example of a longitudinal wave.
    1. Sound c. light
    2. Transverse d. all of these