Name: Hour: Date:

**Lesson FOUR Vocabulary**

***All the words in this lesson come from the world of science.***

**Algae:** n. simple plants found in water, such as seaweed or pond scum *(Scientists are experimenting with ways to use algae as a food source for humans.)*

**Asteroid:** n. any of the small, celestial bodies orbiting the sun mainly between Mars and Jupiter *(A collision with an asteroid can damage satellites.)*

**Cellular:** adj. having to do with or consisting of cells *(Biologists study cellular activity in order to learn more about the spread of disease.)*

**Combustion:** n. the act of burning *(Combustion produces light and heat.)*

**Ecological:** adj. having to do with the branch of science that studies the relationship of organisms to their environment *(Ecological studies aid endangered species.)*

**Filament:** n. a single thread or a thin wire *(A light bulb produces light from a glowing filament.)*

**Frond:** n. a large leaf *(A frond of a palm tree can grow to enormous lengths.)*

**Geographical:** adj. having to do with the study of the earth and its life *(Maps are used to show the geographical location of cities.)*

**Hereditary:** adj. having to do with characteristics that are passed on from parent to offspring *(The color of a person’s eyes is hereditary.)*

**Hypothesis:** n. a trial answer to a problem *(Scientists developed a hypothesis to explain black holes in space.)*

**Magnetic:** adj. having the ability to attract *( A compass needle reacts to the magnetic force of the earth’s poles.)*

**Physicist:** n. a scientist who studies the properties of matter and energy *(Albert Einstein was a physicist.)*

**Ratio:** n. the relationship in amount or size between two or more things *(The ratio of the number of boys in the class to the number of girls is 2 to 1.)*

**Species:** n. a classification of closely related organisms *(The red-cockaded woodpecker is one species of woodpecker.)*

**Stratum:** n. a layer of rock made up of the same kind of material *(A paleontologist can estimate the age of a fossil by identifying the stratum in which it was found.)*

**Synthesize:** v. to combine *(Two molecules of hydrogen and one molecule of oxygen synthesize to form water.)*

**Undersea:** adj. below the surface of the sea *(One way to study life in the ocean is with undersea photography.)*

**Unstable:** adj. not constant or steady; easily changed *(An unstable air mass can cause severe thunderstorms to develop.)*

**Vaccine:** n. a preparation given to build up immunity to a particular disease *(The polio vaccine saved the lives of countless children and adults.)*

**Verify:** v. to prove *(A scientist will repeat an experiment to verify the results.)*

**Directions:** Choose the letter of the word set that best completes the sentence.

1. Scientists will \_\_\_\_\_ a(n) \_\_\_\_\_ through a series of experiments.
   1. Synthesize – stratum c. verify – asteroid
   2. Synthesize – physicist d. verify – hypothesis
2. A(n) \_\_\_\_\_ is often pulled by the \_\_\_\_\_ force of a planet.
   1. Asteroid – magnetic c. asteroid – geographical
   2. Filament – cellular d. algae – ecological
3. \_\_\_\_\_ exploration can lead to the discovery of new \_\_\_\_\_.
   1. Unstable – frond c. geographical – ratio
   2. Undersea – species d. unstable – algae
4. Dr. Frost studies the \_\_\_\_\_ structure of \_\_\_\_\_.
   1. Magnetic – algae c. hereditary – species
   2. Undersea – algae d. cellular – algae
5. This \_\_\_\_\_ of rock contains fossils from an extinct \_\_\_\_\_.
   1. Species – algae c. ratio – vaccine
   2. Stratum – species d. stratum – filament
6. To produce this \_\_\_\_\_, you need to \_\_\_\_\_ these substances.
   1. Physicist – verify c. species – synthesize
   2. Frond – verify d. vaccine – synthesize
7. He wanted to \_\_\_\_\_ the \_\_\_\_\_ distribution of the rare bird.
   1. Synthesize – undersea c. verify – geographical
   2. Synthesize – hereditary d. verify – magnetic
8. A(n) \_\_\_\_\_ study determined the source of a disease on the \_\_\_\_\_.
   1. Geographical – filament c. hereditary – stratum
   2. Magnetic – algae d. ecological – frond
9. A(n) \_\_\_\_\_ might develop a \_\_\_\_\_ to show how one component relates to another.
   1. Physicist – ratio c. asteroid – filament
   2. Physicist – combustion d. species – ratio
10. A(n) \_\_\_\_\_ survey might map out some of the \_\_\_\_\_ characteristics common among people who live in the same region.
    1. Magnetic – cellular c. undersea – ecological
    2. Cellular – magnetic d. geographical – hereditary

**DIRECTIONS: Choose the letter of the word that most nearly has the SAME meaning as that in capital letters.**

1. SYNTHESIZE 14. MAGNETIC 17. FILAMENT
   1. Open c. destroy a. easy c. repulsive a. film c. strand
   2. Unite d. prove b. large d. attractive b. covering d. filling
2. RATIO 15. HYPOTHESIS 18. VERIFY
   1. Rationale c. comparison a. fact c. knowledge a. check c. combine
   2. Value d. form b. trance d. theory b. reveal d. suggest
3. HEREDITARY 16. COMBUSTION 19. UNSTABLE
   1. Similar c. cellular a. fire c. repetition a. firm c. changeable
   2. Inherited d. changeable a. combination d. emergency a. unified d. reliable
4. FROND
   1. Tube b. opening c. friend d. foliage