Earth Science Test – Chapter 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Matching: Match each term with the correct definition.

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| 1. \_\_\_\_ albedo | 1. An oval-shaped figure having both ends alike; the characteristic shape of the orbits of planets, satellites, and periodic comets |
| 1. \_\_\_\_ aphelion | 1. One of the nine most massive bodies orbiting the sun |
| 1. \_\_\_\_ density | 1. The ability of an object such as a planet or minor planet to reflect light |
| 1. \_\_\_\_ ellipse | 1. A measure of the amount of material an object contains |
| 1. \_\_\_\_ Jovian | 1. The downward pull of an astronomical body on objects located at its surface |
| 1. \_\_\_\_ mass | 1. Planets that are the earth’s size or smaller and about the same density as the earth; Consists of Mercury, Venus, Earth, Mars, and Pluto |
| 1. \_\_\_\_ perihelion | 1. The point farthest from the earth in the orbit of the moon or a manmade satellite |
| 1. \_\_\_\_ planet | 1. The mass of a certain material per volume |
| 1. \_\_\_\_ surface gravity | 1. The point nearest to the sun in the orbit of a planet or comet |
| 1. \_\_\_\_ terrestrial planet | 1. The planets Jupiter, Saturn, Uranus, and Neptune, which have large, gaseous atmospheres that are so deep that space probes have been unable to locate the planet’s surfaces. |

True or false: Determine whether each statement is true or false.

1. \_\_\_\_ Mars has extreme dust storms.
2. \_\_\_\_ Jupiter is the fastest spinning planet.
3. \_\_\_\_ Neptune was discovered by William Herschel.
4. \_\_\_\_ Saturn is known for its very colorful rings.
5. \_\_\_\_ Pluto takes 248 years to complete one orbit around the sun.
6. \_\_\_\_ Mercury and Mars experience extreme temperatures.
7. \_\_\_\_ The surface of Mars is pretty much flat.
8. \_\_\_\_ Pluto is in perpetual darkness.
9. \_\_\_\_ Jupiter is the largest planet.
10. \_\_\_\_ The Great Red Spot is located on Jupiter.

Short answer: Answer each question with complete sentences!

1. What are the two characteristics that we use to classify the planets?

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1. What two things affect the brightness of a planet?

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List: List the nine planets in order from nearest to the sun to farthest away from the sun.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Multiple choice: Determine which option best answers each question.

1. \_\_\_\_ Which planet has occasionally been identified as a UFO?
   1. Venus
   2. Mercury
   3. Earth
   4. Mars
2. \_\_\_\_ During what year was Pluto discovered?
   1. 1910
   2. 1650
   3. 1940
   4. 2005
3. \_\_\_\_ What color is Uranus as seen in *Voyager 2* photographs?
   1. Purple
   2. Pink
   3. Gray
   4. Pale blue
4. \_\_\_\_ Which planet is tilted 98 degrees from vertical?
   1. Pluto
   2. Jupiter
   3. Uranus
   4. Neptune
5. \_\_\_\_ What planet is known for its extreme brightness?
   1. Pluto
   2. Saturn
   3. Earth
   4. Venus

Extra credit:

1. The four large moons of Jupiter are called what? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_