

1. Which of the following is not an ion?
  - a. atom with a neutral charge
  - b. atom that loses an electron
  - c. atom with a negative charge
2. The celestial sphere is useful for determining the exact distance between a star and the Earth.
  - a. false
  - b. true
3. \_\_\_\_\_ is the amount of time it takes for an object to make one cycle around whatever it orbits.
  - a. Rotation
  - b. Revolution
  - c. Zenith
4. Hipparchus discovered that the Earth wobbles on its axis as it revolves, causing the \_\_\_\_\_ to change.
  - a. orbital period of the Earth
  - b. identity of the North Star
  - c. location of the equator
5. Planets orbit the Sun in a(n) \_\_\_\_\_ path.
  - a. geocentric
  - b. circular
  - c. elliptical
6. Copernicus believed that the \_\_\_\_\_ was at the center of the universe.
  - a. Earth
  - b. Moon
  - c. Sun
7. Who formulated the Laws of Planetary Motion?
  - a. Aristotle
  - b. Plato
  - c. Kepler
8. A planet moves slower in its orbit when it is farther away from the Sun.
  - a. false
  - b. true
9. The line between the north and south poles of the celestial sphere is the \_\_\_\_\_.
  - a. meridian
  - b. axis
  - c. zenith
10. Tycho Brahe was the first to realize \_\_\_\_\_.
  - a. the sky changes
  - b. the Earth is round
  - c. stellar parallax was a hoax



### Answer Key

- |      |       |
|------|-------|
| 1. a | 6. c  |
| 2. a | 7. c  |
| 3. b | 8. b  |
| 4. b | 9. b  |
| 5. c | 10. a |

1. Kepler's third Law of Planetary Motion allows you to determine exactly how far a planet is from the Sun.
  - a. true
  - b. false
  
2. \_\_\_\_\_ was able to prove Kepler's laws of planetary motion using his laws of motion and gravitation.
  - a. Galileo
  - b. Newton
  - c. Copernicus
  
3. Smaller objects have a(n) \_\_\_\_\_ gravitational pull.
  - a. larger
  - b. smaller
  - c. insignificant
  
4. Galileo's work received \_\_\_\_\_ because it was written in Italian instead of Latin.
  - a. ridicule by scholars
  - b. support from the government
  - c. attention from the public
  
5. \_\_\_\_\_ is the force of attraction between two objects.
  - a. Mass
  - b. Refraction
  - c. Gravity
  
6. The discoveries made by Galileo with his telescope \_\_\_\_\_.
  - a. were irrelevant
  - b. proved geocentricity
  - c. supported Copernican theory
  
7. \_\_\_\_\_ is the measure of how much matter an object has.
  - a. Weight
  - b. Mass
  - c. Velocity
  
8. The gravitational constant changes depending on where you are on Earth.
  - a. true
  - b. false
  
9. The speed an object needs to stay in orbit is its \_\_\_\_\_.
  - a. escape velocity
  - b. gravitational velocity
  - c. circular velocity
  
10. Decreasing the distance between two objects causes the force of gravity between them to \_\_\_\_\_.
  - a. decrease by 1/2
  - b. increase by 4x
  - c. increase by 2x

Answer Key

- |      |       |
|------|-------|
| 1. a | 6. a  |
| 2. b | 7. b  |
| 3. b | 8. b  |
| 4. c | 9. c  |
| 5. c | 10. b |

1. The speed of light never changes, no matter where you are.
  - a. true    b. false
  
2. \_\_\_\_\_ is the distance between peaks of a wave.
  - a. Wavelength    b. Frequency    c. Spectrum
  
3. Which of the following is not part of the spectrum?
  - a. microwaves    b. delta rays    c. gamma rays
  
4. Smaller wavelengths mean \_\_\_\_\_.
  - a. lower energy    b. higher frequency    c. fewer protons
  
5. Because of the Doppler Effect, a light source moving away from you at high speed appears to be more \_\_\_\_\_.
  - a. orange    b. blue    c. red
  
6. According to Wien's Law, objects with lower temperatures emit light \_\_\_\_\_.
  - a. only within the visible spectrum    b. with more energy    c. with longer wavelengths
  
7. Which is not true of a refracting telescope?
  - a. light is bent    b. needs big lenses    c. invented by Newton
  
8. To see small wavelengths with good resolution you need a telescope that is \_\_\_\_\_.
  - a. large    b. small    c. in space
  
9. The innermost layer of the Earth is the \_\_\_\_\_.
  - a. mantle    b. core    c. crust
  
10. The shape of the Earth is not a perfect sphere.
  - a. true    b. false



### Answer Key

- |      |       |
|------|-------|
| 1. a | 6. c  |
| 2. a | 7. c  |
| 3. b | 8. b  |
| 4. b | 9. b  |
| 5. c | 10. a |

FOLD ON LINE,  
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- Magnetic fields point \_\_\_\_\_.  
a. away from both poles    b. from south to north    c. from north to south
- What is created when ions collide with the Earth's atmosphere?  
a. aurora    b. ozone    c. meteor showers
- Ions in space are \_\_\_\_\_.  
a. neutral particles    b. cosmic rays    c. attracted to the Earth
- \_\_\_\_\_ is a cycling of hot and cold air that causes surface winds and weather.  
a. Rotation    b. Solar wind    c. Convection
- The spinning of the Earth's core creates \_\_\_\_\_.  
a. a magnetic field    b. both a magnetic field and electricity    c. electricity
- How long does it take the Earth to make one complete revolution?  
a. one year    b. one season    c. one day
- The maria and the \_\_\_\_\_ are landscapes of the Moon.  
a. badlands    b. lowlands    c. highlands
- Thermal shocks and bombardment cause the surface of the Moon to be \_\_\_\_\_.  
a. smooth    b. powdery    c. glazed
- \_\_\_\_\_ causes a far side of the Moon, which never faces the Earth.  
a. Earth's gravity    b. The Sun's gravity    c. The Moon's gravity
- The Moon has no weather.  
a. True    b. false



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### Answer Key

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|------|-------|
| 1. c | 6. a  |
| 2. a | 7. c  |
| 3. b | 8. b  |
| 4. c | 9. a  |
| 5. b | 10. a |

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1. What kind of planets have rocky surfaces and high densities?
  - a. Plutonian
  - b. terrestrial
  - c. Jovian
  
2. The streams of ions and particles that shoot out of the Sun are \_\_\_\_\_.
  - a. gamma rays
  - b. solar winds
  - c. cosmic radiation
  
3. Because they share some similar properties, \_\_\_\_\_ and Earth are called sister planets.
  - a. Venus
  - b. Mars
  - c. Jupiter
  
4. Cosmic Abundance refers to the fact that \_\_\_\_\_ is composed of the same proportion of hydrogen and helium as the solar system.
  - a. Earth
  - b. Mars
  - c. Jupiter
  
5. Which planet is geologically and meteorologically dead?
  - a. Mars
  - b. Mercury
  - c. Saturn
  
6. How many moons does Mars have?
  - a. 2
  - b. 4
  - c. 1
  
7. Jupiter is an example of what kind of planet?
  - a. terrestrial
  - b. Plutonian
  - c. Jovian
  
8. Which planet rotates backwards?
  - a. Venus
  - b. Earth
  - c. Mercury
  
9. Which moon has weather and an atmosphere?
  - a. Io
  - b. Europa
  - c. Titan
  
10. It is thought that Saturn's rings are made of debris from \_\_\_\_\_.
  - a. the formation of Jupiter
  - b. the Big Bang
  - c. moons that got too close



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### Answer Key

- |      |       |
|------|-------|
| 1. b | 6. a  |
| 2. b | 7. c  |
| 3. a | 8. a  |
| 4. c | 9. c  |
| 5. b | 10. c |

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1. Which planet, like Venus, rotates clockwise?
  - a. Pluto
  - b. Neptune
  - c. Uranus
2. Neptune was the first planet to be discovered by \_\_\_\_\_.
  - a. Newton's Law
  - b. Galileo
  - c. the naked eye
3. \_\_\_\_\_ appears to be sitting on its side as it revolves.
  - a. Pluto
  - b. Uranus
  - c. Charon
4. Which planet is closer to the Sun?
  - a. Neptune
  - b. Pluto
  - c. depends on Pluto's orbit
5. \_\_\_\_\_ is the process in which the Sun turns hydrogen into helium.
  - a. Transference
  - b. Convection
  - c. Fusion
6. All of the Sun's energy is produced in the \_\_\_\_\_.
  - a. photosphere
  - b. radiative zone
  - c. core
7. Sunspots are \_\_\_\_\_ on the Sun's surface.
  - a. dark spots
  - b. cold regions
  - c. magnetic storms
8. \_\_\_\_\_ occur when two sunspots drift together and combine.
  - a. Solar eclipses
  - b. Solar flares
  - c. Solar winds
9. After a sun storm has occurred, what event happens on Earth?
  - a. meteor showers
  - b. northern lights
  - c. tidal waves
10. The sun has an atmosphere.
  - a. true
  - b. false



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### Answer Key

- |      |       |
|------|-------|
| 1. a | 6. c  |
| 2. a | 7. c  |
| 3. b | 8. b  |
| 4. b | 9. b  |
| 5. c | 10. a |

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