Name: _____

Date: _____ Grade: _____

SECTION QUIZ 3-1



Remember:
Score an average of 85% or higher on all three quizzes, and you may be exempt from the chapter test!



Congratulations! You have completed this section!
Answer the following questions to test your understanding of the material. When you are finished, hand in your quiz to your teacher. Each answer is worth 2.5 points.

Matching:

1. _____ light waves
2. _____ refraction
3. _____ reflection
4. _____ concave mirror or lens
5. _____ diffraction
6. _____ health hazards
7. _____ sound and water waves
8. _____ visible light

(a) curved inward
(b) light rays bouncing off an object
(c) are electromagnetic; travel fastest in a vacuum
(d) spreading out of light rays
(e) thicker in the middle
(f) light bends when entering new medium
(g) part of electromagnetic spectrum; composed of six colors
(h) require a medium in which to travel
(i) ultraviolet, gamma and X-rays

Fill in the blank: Choose the correct word from the WORD BANK.

WORD BANK

farsighted	pitch	color	suffix	nearsighted
antonym	convex	waves	matter	spyglass

9. Sound, water and light are _____ motions.
10. The frequency of sound is its _____.
11. The frequency of visible light is its _____.
12. A _____ lens is also known as a reading lens, a magnifying lens or a burning glass.
13. Solids, liquids and gases together are known as states of _____.
14. _____ people can see distant objects easily, but up-close items are blurry.
15. People who can see up-close but to whom distant objects are blurry are called _____ _____.

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True or False: Write the correct answer.

16. _____ Origin, pitch or loudness each can impact the speed of sound traveling through air.
17. _____ Most metals are conductors of heat.
18. _____ Sound travels fastest in metal.
19. _____ Heat capacity is the ability of a substance to hold or retain heat.
20. _____ Heat is always measured in degrees.
21. _____ Food calories are equal to metric calories.
22. _____ Most nonmetals are heat insulators.

Multiple Choice: Write the letter of the correct answer.

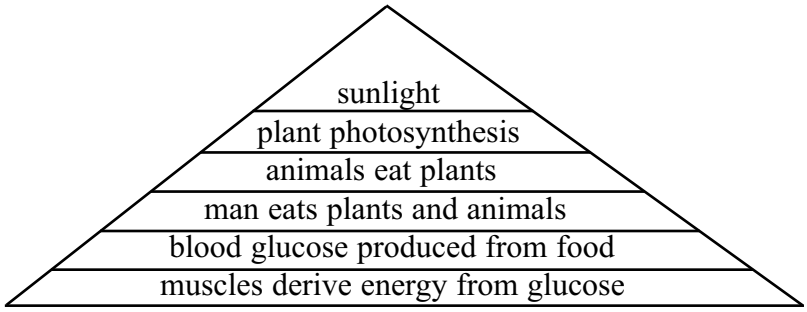
23. Which is **NOT** true of Galileo and his telescope? _____
    (a) He invented a refracting telescope in 1609.
    (b) He was an Italian scientist who wanted to study the heavens.
    (c) He competed with Newton and Lippershey.
    (d) His telescope used lenses to bend light to a focus.
24. Which statement about Isaac Newton is **NOT** correct? _____
    (a) He was the first European scientist to endorse the Big Bang Theory.
    (b) He invented a reflecting telescope in 1669.
    (c) He wanted to verify, scientifically, various things mentioned in the Bible.
    (d) His telescope used a mirror to focus light.
25. Why do sounds **NOT** travel in a vacuum? _____
    (a) Sound waves have to have empty space in which to move.
    (b) Objects in a vacuum do not move back and forth.
    (c) Sound waves travel out too far.
    (d) Sound waves travel out too slowly.
26. What does the following paragraph describe? _____
    The Sun heats water bodies on Earth, causing water to evaporate into the atmosphere. Water vapor collects and moves over land masses as clouds which release rain. Rain water runoff flows into Earth's bodies of water, and the entire process is repeated, as it has been since the creation of Earth.
    (a) the nitrogen cycle
    (b) the matter and energy cycle
    (c) the water cycle
    (d) the ecological cycle

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27. What main concept from your text is illustrated in the following diagram? _____

_____



(a) the food chain
(b) the food web
(c) a comparison of ecosystems
(d) the Sun as the ultimate energy source

Matching: Choose the correct answer.

28. _____ Roger Bacon
29. _____ Hans Lipperhey
30. _____ convection
31. _____ conduction
32. _____ radiation
33. _____ matter
34. _____ energy
35. _____ fossil fuels

(a) movement of heat by air currents
(b) ability to do work, ultimate source is the Sun
(c) British scientist, invented first reading lenses in 1200s
(d) transfer of heat by electromagnetic waves
(e) remains of ancient plant or animal life, compacted by great pressure; includes peat, coal, petroleum, natural gas
(f) occupies space and has mass
(g) transfer of heat by direct contact
(h) Dutch eyeglass maker, invented first telescope ("spy glass") in 1608

Complete the Life Principles.

36. *"Welcome _____ uplift our spirits."*
37. *"Our _____ are reflections of thoughts we repeatedly allow to enter our minds."*
38. *"Whoever has searched the heavens with a _____ and found no God would not have found the human mind if he had searched the brain with a microscope."*
39. *"A _____ is a mental condition that cools friendships."*
40. *"A smile is the lighting system of the face and the _____ of the heart."*

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