Light and Sound Unit Test

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

____ 1. In which of the following media does sound travel the fastest?
a. a hollow wall
b. a vase full of water
c. a solid block of glass
d. a balloon filled with helium

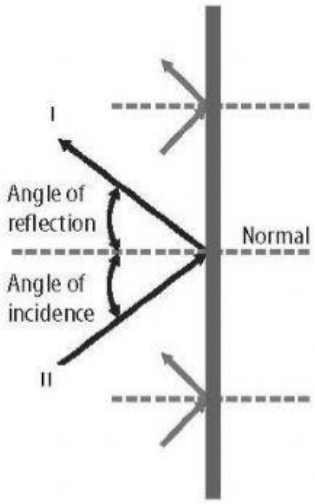
____ 2. In which of the following temperatures of air would sound travel slowest?
a. –5°C
b. 25°C
c. 15°C
d. 0°C

____ 3. Sounds with frequencies higher than 20,000 hertz are called _____.
a. sonic booms
b. subsonic
c. super sonic
d. ultrasonic

____ 4. Wax paper is _____.
a. translucent
b. reflective
c. transparent
d. opaque

____ 5. When sound travels through air, the air particles _____.
a. vibrate perpendicular to the direction of wave movement
b. vibrate but not in any fixed direction
c. do not vibrate
d. vibrate along the direction of wave movement

____ 6. Use the diagram of reflection of light to identify I and II.
Line I is also known as the _____, and Line II is also known as the _____.



a. incident ray; normal ray
b. reflected ray; incident ray
c. reflected ray; scattered reflected ray
d. scattered reflected ray; tilted normal

____ 7. If you pass a building with a siren sounding, as you move away from the building, the sirens will sound ____.
a. lower
b. depends on the speed
c. higher
d. the same

____ 8. _____ rays can be used to destroy diseased tissue in a patient.
a. Gamma
b. Fluorescent
c. X-
d. Infrared

____ 9. Plastic wrap is _____.
a. opaque
b. translucent
c. reflective
d. transparent

____ 10. All of the following are part of seeing yourself in a mirror **EXCEPT** _____.
a. light from the mirror hits your eye
b. light from you hits the mirror
c. light reflects off you
d. lights from the mirror hits the wall

LIVEWORKSHEETS