Name: _____ Pd: _____

WAVES SCIENCE STARTERS

9/25-9/29/2023

ALL UNIT SCIENCE STARTERS MUST BE TURNED IN BY THE UNIT TEST TO RECEIVE CREDIT

Date:	Question:	Answer:
Monday /2	Which statement best explains the difference between longitudinal and transverse waves? a. Longitudinal waves have troughs, transverse waves have crests b. Particles in longitudinal waves travel towards a force, particles in transverse waves travel away from a force c. Longitudinal waves produce energy, transverse waves consume energy d. Particles in a longitudinal wave travel parallel to the energy, particles in a transverse wave travel perpendicularly to the energy.	
Tuesday /2	The electromagnetic spectrum has some wavelengths that can be seen with the unaided eye. Other wavelengths are not visible and can only be measured using specialized equipment and telescopes. Radio wave telescopes and microwave telescopes are both used to explore space. How would a radio wave and a microwave compare on the EM spectrum? a. Radio waves have the same frequency as microwaves. b. Radio waves have a lower frequency than microwaves. c. Radio waves have a higher frequency than microwaves. d. Radio waves frequency varies; it can be higher or lower than that of microwaves.	
Wednesday /2	The world's largest infrared telescope is located in Hawaii. Which type of electromagnetic radiation does this telescope collect? a. wavelengths that are shorter than visible light b. wavelengths that are longer than radio waves c. wavelengths that are shorter than gamma rays d. wavelengths that are longer than ultraviolet light	

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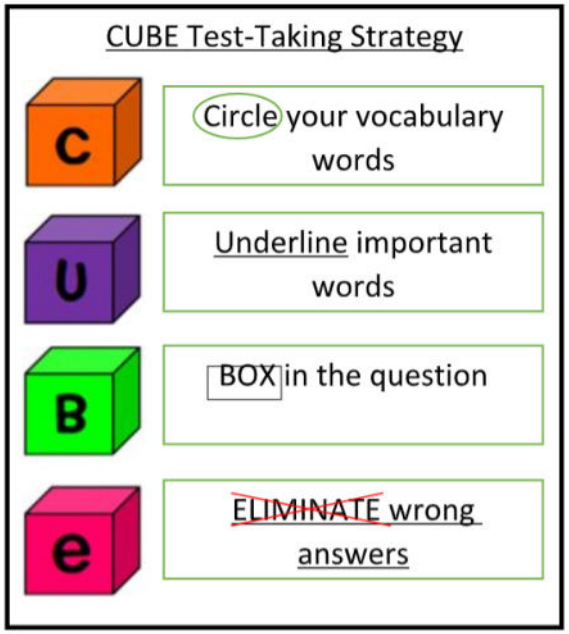
Thursday /2	Our eyes detect light that lies only within a small region of the electromagnetic spectrum. This region is called visible light. Which of these statements describes the visible spectrum of light as seen by the human eye? a. The lowest frequency appears red, and the highest frequency appears violet. b. The lowest frequency appears green, and the highest frequency appears red. c. The lowest frequency appears blue, and the highest frequency appears orange. d. The lowest frequency appears yellow, and the highest frequency appears green
Friday /2	The energy generated by the sun travels to Earth as electromagnetic waves of varying lengths. Which claim describes an electromagnetic wave with a long wavelength? a. It has a high frequency and low energy. b. It has a high frequency and high energy. c. It has a low frequency and can travel through a vacuum. d. It has a low frequency and needs a medium to travel through.



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CUBE Test-Taking Strategy

Circle your vocabulary words

Underline important words

BOX in the question

~~ELIMINATE~~ wrong answers