



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

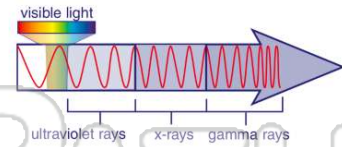
1 In the chart below, the terms **UHF** and **VHF** mean Ultra and Very High \_\_\_\_\_.

- A Wavelength
- B Frequency
- C Energy
- D Fashion

Broadcast Frequencies	
Type of Broadcast	Frequency Range
AM radio broadcast	535 kHz to 1,605 kHz
VHF television	54 MHz to 216 MHz
FM radio broadcast	88 MHz to 108 MHz
UHF television	470 MHz to 806 MHz

2 Based on the diagram below, which color of visible light has the **shortest wavelength**?

- A orange
- B violet
- C green
- D blue



3 Each of these items involve the use of different types of **electromagnetic waves**. Which creates **infrared rays** when it is on?

- A radio
- B microwave



4 In the diagram below, \_\_\_\_\_ are **being used** to do a variety of things.

- A electromagnetic waves
- B sound waves
- C X-rays
- D gamma rays



## PREVIEW

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7 \_\_\_\_\_  
A clear  
B transparent  
C opaque  
D translucent

- A heat up
- B stay cool
- C let a lot of light through
- D let some light through



9 The reason why a leaf **looks green** when light shines on it is that the leaf \_\_\_\_\_

- A reflects green light but absorbs the other colors of light
- B absorbs the green light and reflects all the other colors
- C allows all colors of light except green to pass through it
- D allows green light to pass through it



10 In the summertime, **white clothing** keeps a person cooler than **black clothing**. What is the reason for this?

- A white reflects all visible light waves
- B white absorbs all the wavelengths of visible light
- C black reflects all the wavelengths of visible light
- D black has less energy than white





## ANSWER KEY

In the chart below, the terms **UHF** and **VHF** mean Ultra and Very High \_\_\_\_\_.

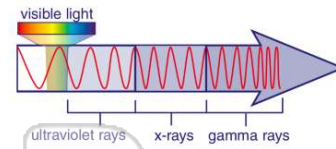
- A Wavelength
- B Frequency
- C Energy
- D Fashion

Broadcast Frequencies	
Type of Broadcast	Frequency Range
AM radio broadcast	535 kHz to 1,605 kHz
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FM radio broadcast	88 MHz to 108 MHz
UHF television	470 MHz to 806 MHz

(b)

Based on the diagram below, which color of visible light has the **shortest wavelength**?

- A orange
- B violet
- C green
- D blue



(b)

Each of these items involve the use of different types of **electromagnetic waves**. Which creates **infrared rays** when it is on?

- A radio
- B microwave
- C toaster
- D toaster



(c)

In the diagram below, \_\_\_\_\_ are being used to do a variety of things.

- A electromagnetic waves
- B sound waves
- C X-rays
- D gamma rays



(a)



## PREVIEW

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- C opaque
- D translucent

- C let a lot of light through
- D let some light through

The reason why a leaf **looks green** when light shines on it is that the leaf \_\_\_\_\_.

- A reflects green light but absorbs the other colors of light
- B absorbs the green light and reflects all the other colors
- C allows all colors of light except green to pass through it
- D allows green light to pass through it



(a)

In the summertime, **white clothing** keeps a person cooler than **black clothing**. What is the reason for this?

- A white reflects all visible light waves
- B white absorbs all the wavelengths of visible light
- C black reflects all the wavelengths of visible light
- D black has less energy than white



(a)