



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

1 **Light** is a form of energy that travels in \_\_\_\_\_.

- A units
- B waves
- C reflections
- D decibels



2 We can see only the wavelengths and frequencies of the colors in the \_\_\_\_\_, which include **red**, **orange**, **yellow**, **green**, **blue**, and **violet**.

- A night spectrum
- B day spectrum
- C viable spectrum
- D visible spectrum



3 As you move from left to right on the visible light spectrum, wavelength decreases and frequency increases. Which color of the visible spectrum then would have the **shortest wavelength and the highest frequency**?

- A red
- C violet



4 Most waves in the **electromagnetic spectrum** are \_\_\_\_\_ to our eyes. **X-rays** and waves in your **microwave** that cook your food are examples of **electromagnetic waves**.

- A invisible
- B visible



5

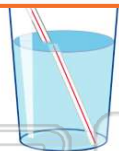


## PREVIEW

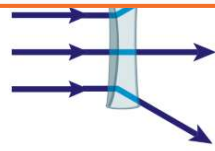
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7

- B Refraction
- C Absorption
- D Twisting



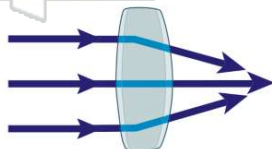
- A magnifying lens
- B convex lens
- C microscope lens
- D concave lens



9

A \_\_\_\_\_ lens is **thicker in the middle** than on its edges and makes things look **larger**. A magnifying glass contains a convex lens.

- A concave
- B convex
- C large
- D convert



10

Materials react to light in different ways. What type of material **allows light to pass through clearly without any effects**, like a window?

- A translucent
- B opaque
- C transparent
- D dense





## ANSWER KEY

Light is a form of energy that travels in \_\_\_\_\_.

- A units
- B waves
- C reflections
- D decibels



(b)

We can see only the wavelengths and frequencies of the colors in the \_\_\_\_\_, which include red, orange, yellow, green, blue, and violet.

- A night spectrum
- B day spectrum
- C viable spectrum
- D visible spectrum



(d)

As you move from left to right on the visible light spectrum, wavelength decreases and frequency increases. Which color of the visible spectrum then would have the shortest wavelength and the highest frequency?

- A red
- B yellow
- C violet
- D blue



(c)

Most waves in the electromagnetic spectrum are \_\_\_\_\_ to our eyes. X-rays and waves in your microwave that cook your food are examples of electromagnetic waves.

- A invisible
- B visible
- C bright
- D reflected



(a)



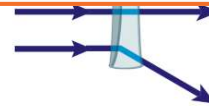
## PREVIEW

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- C Absorption
- D Twisting

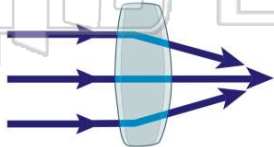


- B convex lens
- C microscope lens
- D concave lens



A \_\_\_\_\_ lens is thicker in the middle than on its edges and makes things look larger. A magnifying glass contains a convex lens.

- A concave
- B convex
- C large
- D convert



(b)

Materials react to light in different ways. What type of material allows light to pass through clearly without any effects, like a window?

- A translucent
- B opaque
- C transparent
- D dense



(c)