Light
Formative Assessment

Name _____
Date _____ Block _____

Answer completely in the space provided. You may do any work on the back.

1. Electromagnetic radiation is the result of _____ moving from higher to lower energy levels in an atom.

2. **True or False:** Light is considered both a wave and a particle.

3. A red ball will look _____ when placed under only blue light.

4. Which region of the electromagnetic spectrum has the highest energy waves?

5. Which color of visible light has the longest wavelength?

6. List the primary colors of light.

7. When white light shines on a red rose petal, which primary colors of light are absorbed? Which colors are reflected?

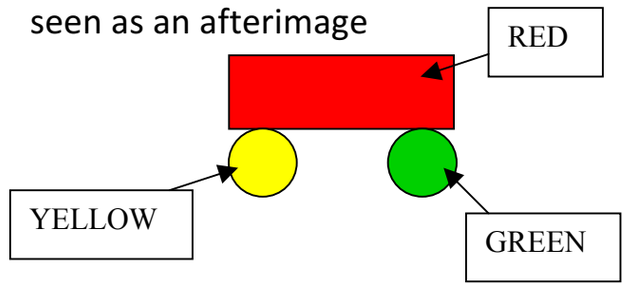
8. An object that blocks all light is considered to be _____.

9. A light wave can be _____, which is to say that it can be made to vibrate in only one plane.

10. Why does light refract when it passes from the air into a piece of glass?

11. A prism forms a rainbow primarily because the different colors of light travel at different _____ in the glass.

12. Redraw the image as it would be seen as an afterimage



Circle the questions you answered incorrectly. Remove this strip and turn in to your teacher. C13

Emag Waves	Color	Interactions
1	**3**	**8**
2	**6**	**9**
4	**7**	**10**
5	**12**	**11**

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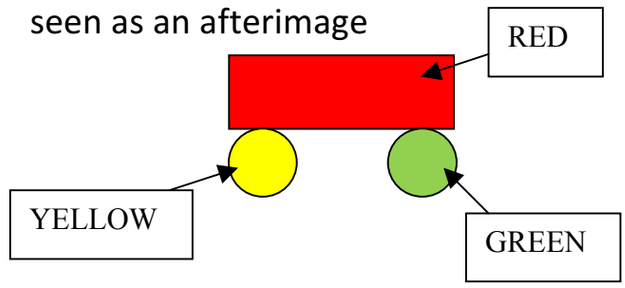

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