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Unit 6I
Color
Note-Taking Guide

Name:

Date:

Main Ideas, Key Points, Questions:

After watching the video segment, write down key points, main ideas, and big questions.

Objective(s):

- ***Differentiate between the different colors of visible light based on the wavelength and frequency.***
- ***Understand how light addition and subtraction occurs in the creation of specific colors of light.***

Notes:

During the video segment, use words, phrases, or drawings to take notes.

Summary:

After watching the video segment, write at least three sentences explaining what you learned.
You may ask yourself: "If I was going to explain this to someone else, what would I say?"

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Questions to Consider

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Answer the following.

1. What colors do you see- the ones that are absorbed by an object, or reflected by one?

_____

2. List the colors of the visible spectrum, from longest to shortest wavelengths:

R _____

O _____

Y _____

G _____

B _____

I _____

V _____

3. Using the list above, which color light has the greatest frequency?

_____

4. What are the three primary colors of light?

_____

5. What color of light is formed when all three colors are combined at the same intensity?

_____

6. Define translucent in your own words.

_____

_____

questions continued on next page

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Answer the following.

7. What is a material called in which no light is able to pass through?

_____

8. What does the unit lumens measure?

_____

9. What color of light does chlorophyll absorb?

_____

10. List the secondary colors of light from the primary colors that combine to create them:

    Red + Green makes _____

    Red + Blue makes _____

    Blue + Green makes _____

11. When complementary colors of light are combined, _____ light is formed.

12. What process do pigments use in order for specific colors to be seen by an observer?

_____

13. The receptors in the eye that are more sensitive to light are called _____ , and the receptors that are more sensitive to color are called _____ .