

Chapters 20-22 Worksheet 1

1. What 2 fields does electromagnetic radiation consist of?
2. Which type of electromagnetic radiation has the highest energy? Lowest energy? Shortest wavelength? Longest wavelength?
3. What are some uses of electromagnetic radiation in current day?
4. What is dispersion?
5. What is white light and what is an example of white light?
6. What are the 4 ways color can be seen?
7. Why do objects appear black?
8. Materials _____ light of some frequencies and _____ the rest.
9. Why does a red piece of glass appear red?
10. What is pigment and what is its function?
11. When red light shines on a red rose, why do the leaves become warmer than the petals?
12. What are the additive primary colors?
13. What color is produced by overlapping red, green and blue?

14. a) What does red + green make?
b) What does red + blue make?
c) How do you make the color cyan?
15. a) What does yellow and blue make?
b) What does magenta and green make?
c) What does cyan and red make?
16. What are the subtractive primary colors?
17. Why is the sky blue?
18. Why are the clouds white?
19. Why are sunsets red?
20. Why is the water greenish blue?