

Name: _____
Blk: ___ Date: _____

4.2 Properties of Visible Light

Read pgs 144-149 to complete the following:

1. The _____ depicts light travelling as a wave.
2. _____ is a type of wave that travels through empty space and transfers energy from one place to another.
3. A wave that you see is called _____.
4. Refraction is defined as _____
_____.
5. Explain why we see a rainbow emerge from a prism
6. In a rainbow we see a range of colours that decrease in wavelength and increase in frequency. These colours in order are:
 - a. Which colour has the longest wavelength?
 - b. Which colour has the shortest wavelength?
 - c. Which colour has the highest frequency?
 - d. Which colour has the lowest frequency?
7. Use Newton's experiment to explain that light itself contains colour.
8. Reflection is defined as _____
_____.
9. Why does a green shirt appear to be green?
10. Why does your blue coat look black when you are in a dark movie theatre?

Fill in the colours of the VISIBLE SPECTRUM on the diagram below:

