April 17th, 2011

Physics Unit 3- Light

1. Light behaves like a transverse wave.
2. A “ray” is a straight line representing the path of light. ↗
3. Light refers to the small range of frequencies of electromagnetic radiation that the human eye can detect.
4. The visible spectrum of light has an arrangement of seven colours:

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1. Each of the seven colours has its own wavelength and frequency (see page 330 textbook).
2. An object will reflect all wavelength of light that correspond to its own colour.
3. Light can travel in a vacuum.
4. The speed of light in a vacuum is 3.00 x 10^8 m/s.
5. Light travels in straight lines.

10) Light will refract when it crosses on an angle, a boundary between 2 media.

11) Light will diffract when it encounters and obstacle.

12) Light can be bent by gravity.

13) Light cannot be bent by magnetic or electric fields.