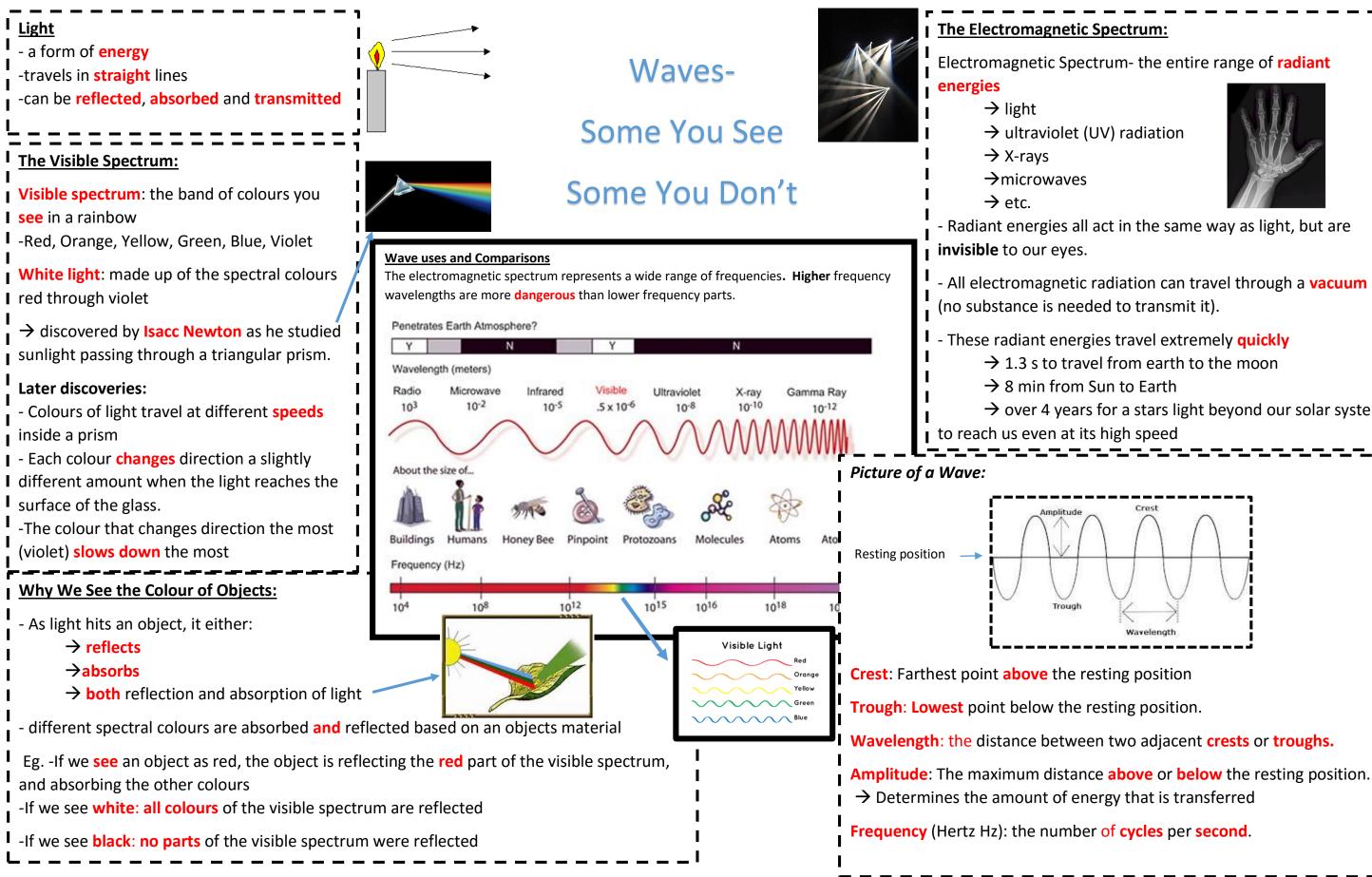
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- \rightarrow over 4 years for a stars light beyond our solar system

Check Your Understanding 10.4

- Which statement do you think is correct? Explain.
 A. White light is made up of the spectral colours. The rainbow colours appear when light passes through water droplets.
 B. Water droplets add colour to white light to produce the rainbow.
- 2. Which colour of light changes direction the most when it leaves the triangular prism? Which colour of light changes the least?
- 3. Briefly describe three places where you have seen the visible spectrum.
- 4. Why can we see the colour of objects?

Check Your Understanding 10.5

- 1. Use simple sketches of waves to illustrate the meaning of the terms wavelength, amplitude, and frequency
- 2. Assuming that the speed of a wave is constant, explain the relationship between wavelength and frequency.
- 3. Place these electromagnetic waves in order from lowest energy to highest energy: blue light, microwaves, X-rays, orange light, infrared radiation.
- 4. List the electromagnetic waves you have experienced in the past year and where they are found in the electromagnetic spectrum.



