The basic of light: Name Date

1. Draw a picture of a wave: label the wavelength, and the amplitude

2. How would you indicate the speed at which the wave moves?

3. How would you indicate the frequency of the wave?

4. Now draw a picture of a wave with the same velocity but twice the frequency. How does doubling the frequency affect the wavelength?

5. Now draw two waves – and show what happens if they arrive at the same spot at the same time – in phase

6. Show what happens if they arrive out of phase.

7. What is the difference between diffraction and interference?