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| 1. plane mirror | a flat mirror |
| 2. propagate | to travel through a medium or space |
| 3. pulse | a single disturbance |
| 4. rarefaction | the region in a longitudinal wave where the particles are spread out further than their equilibrium positions |
| 5. ray | a line drawn at right angles to a wave front |
| 6. reflection | the bouncing back of a wave or particle from a boundary |
| 7. refraction | the bending of a wave as it passes from one medium into another, resulting from a change in speed of the wave in the two media |
| 8. refractive index | the ratio of the sine of the angle of incidence to the sine of the angle of refraction, for a wave travelling from one medium into another |
| 9. Snell's law | a law relating the angle of incidence to the angle of refraction; $n = \sin i / \sin r$ |
| 10. superposition | the combination of two or more waves by adding their displacements to produce a resultant wave |
| 11. total internal reflection | the reflection of all the light falling on a boundary when the angle of incidence exceeds the critical angle |
| 12. transverse wave | a wave in which the particles vibrate at right angles to the direction of energy transfer |
| 13. trough | a region of downwards displacement in a transverse wave |
| 14. ultraviolet | electromagnetic waves with wavelengths shorter than violet light |
| 15. velocity | the speed of a wave in the direction of energy transfer |
| 16. volume | the degree of loudness of a sound |
| 17. wave | a carrier of energy; does not transfer matter |
| 18. wavefront | a line joining points in phase on a wave |
| 19. wavelength | the distance between two corresponding successive points on a wave |
| 20. x-ray | high frequency electromagnetic waves of high penetration |
