



WAVES CROSSWORD PUZZLE

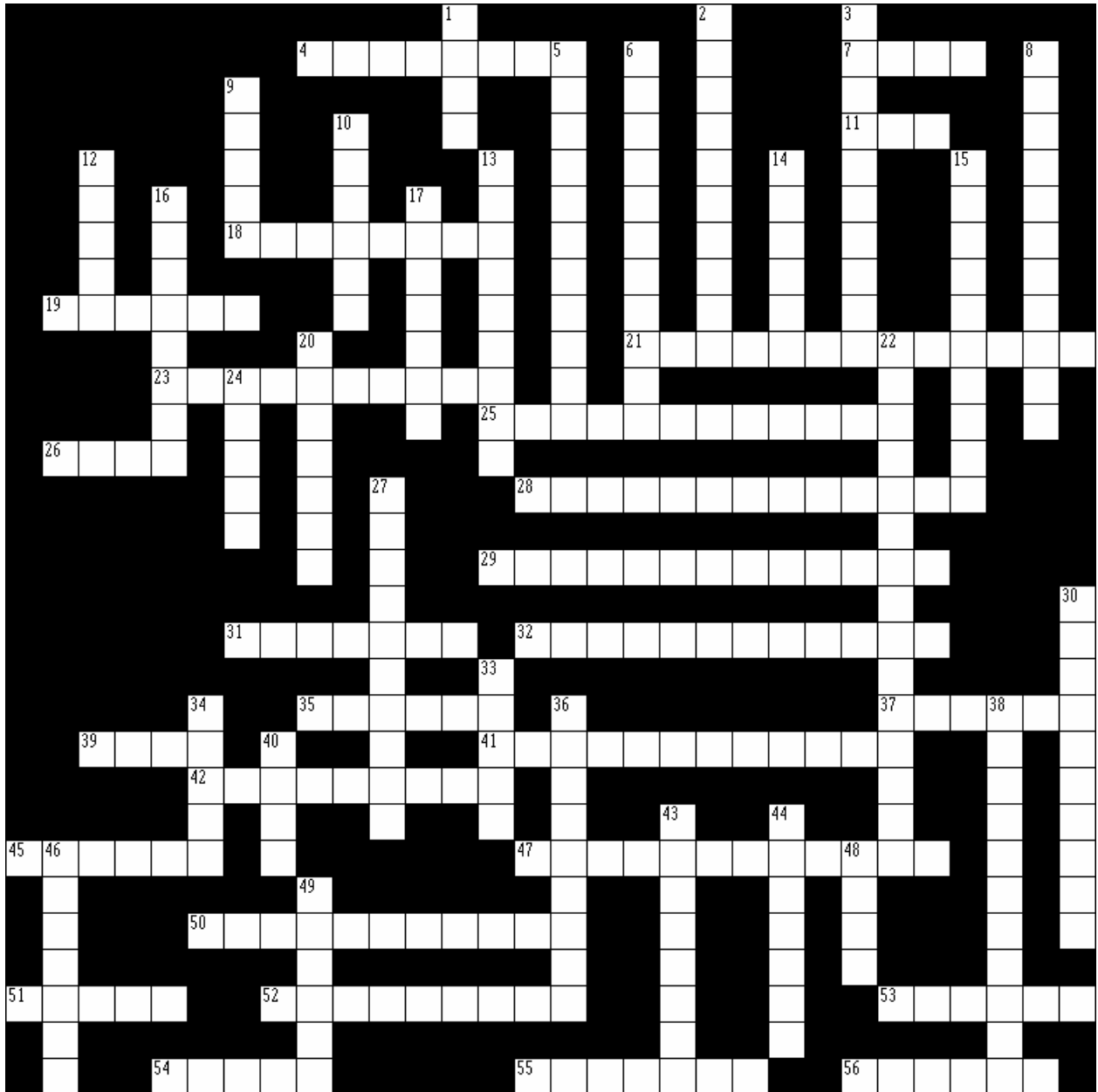
Across

- 4 part of the electromagnetic spectrum that includes wavelengths that can be sensed as heat
- 7 point on a standing wave of maximum vibration
- 11 low energy colour
- 18 point on a standing wave of maximum vibration
- 19 a tube whose fundamental resonant length is one-quarter wavelength
- 21 a property of strings involving their mass and length
- 23 one of three things that happens to waves when they encounter a different medium
- 25 reinforcing interference
- 26 sonic _____
- 28 one colour
- 29 a term which refers to the adding together of pulses or waves
- 31 compound microscope inventor
- 32 sound waves in fluids are this kind of wave
- 35 destructive interference fringes
- 37 he believed that refraction is caused by the gravity
- 39 a traveling disturbance
- 41 a device used to measure angles of diffraction
- 42 displacement maximum
- 45 ultrasound using mammals
- 47 refers to the superposition of waves
- 50 the portion of a sound wave which is reduced in pressure
- 51 frequency unit
- 52 wave type produced by RADARs
- 53 a place without matter
- 54 wavelength divided by period
- 55 an effect of apparent frequency change due to relative motion of source and observer
- 56 a bright or dark image produced by diffraction

Down

- 1 a light interference fringe type
- 2 refractive separation of light into component wavelengths
- 3 in pitch, beyond human hearing
- 5 the bending of waves by openings or obstacles
- 6 in frequency, just beyond visible light
- 8 first harmonic
- 9 highest energy electromagnetic waves
- 10 before violet
- 12 Dutch mathematician who experimentally discovered the law of refraction
- 13 a characteristic of periodic waves
- 14 physical quantity symbol for wavelength
- 15 sound too low in pitch to hear
- 16 wavelength unit
- 17 silly mnemonic device
- 20 a property of a string that affects wave speed
- 22 waves that do not require a medium for transmission
- 24 _____ optics
- 27 the horizontal length of one cycle of a wave
- 30 a type of wave in which the medium is displaced perpendicular to the direction of wave travel
- 33 light amplification by stimulated emission of radiation
- 34 an interference effect
- 36 refers to the large amplitude vibration that occurs when a system is driven at a frequency that is its natural frequency
- 38 he demonstrated interference of light waves
- 40 a kind of resonating tube with antinodes at both ends
- 43 angle at which total internal reflection occurs
- 44 a device that separates waves by wavelength
- 46 Dutch physicist whose principle describes transmission and diffraction of waves
- 48 stationary point
- 49 the time needed for a single wavelength to pass

WAVES CROSSWORD



WAVES CROSSWORD (KEY)

