7th grade							
Measuring	Waves	Sound	Light	Astronomy			
tape measure, scale, measuring cylinder, uncertainty, result, graph, observation, conclusion, unit, quantity	wave, oscillation, period of oscillation, wavelength, frequency, transversal wave, longitudinal wave, compression, rarefaction, amplitude, pendulum, propagation	speed of sound, medium, sound level, pitch, decibel, noise, hearing range, infrasound, ultrasound, hearing, absolute threshold of hearing, pain threshold	Light ray, light source, transparent, absorb, emit, white light, spectrum, , ultraviolet, infrared, mirror, lens, convex, concave, plane mirror, boundary, normal (to the boundary), angle of incidence, angle of reflection, angle of refraction, incident light ray, reflected ray, refracted ray , reflection, refraction, total internal reflection, image, disperse, converge, focal point/focus, focal length, main axis	Solar system, planet, moon, comet, asteroid, galaxy, astronomical unit, light year, cosmic microwave radiation, sunspot			
8th grade							
Mechanics: motion	Mechanics: forces	Mechanics: work, energy, power	Thermodynamics				
motion, distance, displacement, time, speed, average speed, velocity, acceleration, uniform motion, uniform acceleration, constant, gradient/slope, acceleration of	interaction, remote interaction, contact interaction, force, attracting force, repelling force, action (force), reaction (force), newton (unit), Newton's laws,	Mechanical energy, kinetic energy, potential energy, energy dissipation, electrical energy, elastic (potential) energy, chemical energy, light energy, work, power,	state of matter / phase, solid, liquid, gas, temperature scale, kelvin scale, Celsius scale, centigrade, absolute zero temperature, melting point, boiling point, thermal expansion, coefficient of				

gravity, state of motion, at rest	mass, weight, force of gravity, resultant force, tension, normal reaction force, friction static friction, dynamic friction, coefficient of dynamic/static friction, air resistance, buoyancy, upthrust, density, pressure, hydrostatic pressure, air pressure,	efficiency, center of mass, equilibrium, stability, lever, inclined plane, pulley	thermal expansion, substance, bimetal strip, thermal energy, specific heat capacity, heat transfer, thermal conductor, thermal insulator, conduction, convection, radiation, thermal insulation, phase change/phase transition, melting, freezing, vaporization, condensation, deposition, sublimation, evaporation, specific latent heat, thermal equilibrium, global warming, greenhouse effect	
9th grade			greenhouse effect	
Electricity Electric charge positive charge, negative charge, neutral, atom, electron, proton, neutron, nucleus, electric force, attracting, repelling, polarization of charge, electric field, voltage (potential difference), electric current, electrical circuit, fuse, serie/ parallel coupling/connecting, component, cell, battery, lamp,	Magnetism Magnet, bar magnet, permanent magnet, electromagnet, magnetic field, north/south pole, compass, coil/inductor, electromagnetin induction, core, induce, generator, direct current, alternating current, power grid, high voltage, transformer, primary circuit, secondary circuit, iron core, power plant,	Microscopic structures and radiation quark, lepton, molecule, strong interaction, strong interaction, fusion, fission, matter, radiation, electromagnetic radiation, particle radiation, ionizing/non-ionizing radiation, alpha/beta radiation, gamma radiation, X-rays (X-ray radiation), ultraviolet radiation,		
switch, conductor, insulator, voltmeter, ammeter, supply voltage, power socket, plug, resistance, resistor, Ohm's law,	renewable energy resource, non-renewable e.r., fossil fuel, nuclear fuel, biomass, oil, natural gas, biomass, coal,	visible light, infrared radiation, microwaves, radio waves, speed of light, isotope, atomic number, mass number,		

short circuit, electrical power,	nuclear fuel, nuclear waste,	neutron number, radioactivity,	
thermostat, (circuit board,	hydroelectric power, wind	background radiation, activity,	
thermistor, NTC/PTC	power, geothermal energy,	nuclear reactor	
thermistor, diode, LED,	solar panel, solar energy		
integrated circuit, transistor,			
signal)			