Natural sciences set for elementary school

KE060C

Function

Intended for experimental study, natural science laboratory and carrying out natural science experiments on: Human circulatory system, human digestive system, human skeletal system, human anatomy, genetics, genetic crosses, Punnett chart. Kinetics of gases, atomistics, characteristics and properties of atoms and their electronic distribution. Kinematics. The average speed. Measuring time intervals. Uniform rectilinear motion, MRU. The clockwise function of the move. The mobile. Trajectory and displacement. Equilibrium of a piece of furniture on an inclined plane. Experimental determination of the mechanical advantage of the inclined plane. Dynamics. Frictional forces and Newtons first law of motion. Matter and energy. A simple machine called a fixed pulley and a moving pulley. Dynamics. Dynamic determination of K of a helical spring, mass oscillator and spring. Measuring weights and masses. The coil spring and Hookes law. Association of helical springs in series and in parallel. Energy conservation. Work and energy in a mass and helical spring system. Work and energy in a system of mass and oscillating helical spring, conservation of mechanical energy. undulatory. The simple pendulum. Light and optics. The composition of white light (main polychromatic light) and Newtons disk. Properties of geometric optics, light reflection, plane mirror, multiple reflections, reflection in concave and convex spherical mirrors, light refraction, diopters, spherical lenses, vision defects, correction of hyperopia and myopia with lenses. undulatory. Main characteristics of waves in a spring. The longitudinal pulse and the transverse pulse. Characteristics of a wave. The transport of energy in a mechanical wave, ETC.

Knowledge areas

Physics - Chemistry - Biology - Mathematics - Math & Science Fundamentals - Compact Kits