

Physics 8: Physics of Everyday Life

Week 1: Laws of Motion, Skating, Falling, Ramps, Levers, Work

AIR TRACK

Week 2: Wheels, Friction, Collisions, Momentum, Kinetic Energy, Scales, Carousels, Fictitious Forces

PING PONG BALL CANNON

Week 3: The Solar System, Balloons and Plumbing, Baseball, Viscosity & Turbulence

BIKE WHEEL GYRO
SPINNING CHAIR WITH WEIGHTS
CARTESIAN DIVER
RULER LIFT
FLOATING BALL

Week 4: Airplanes & Rockets, Heat & Light

ETHANOL ROCKET

Week 5: Musical Instruments & Resonances, Waves, Tides, & Surf

HOOT TUBE
TUNING FORKS

Week 6: Electricity and Magnetism, Flashlights and AC Power

SERIES AND PARALLEL CIRCUITS (OHM'S LAW)
MAGNET WITH COIL

Week 7: Motors and Generators, Magnetic Recording, Sound Reproduction

MOTOR AND GENERATOR

HAND CRANK GENERATOR WITH LIGHTBULB

Week 8: Computers & Information, Radio & Television, The Electronic Battlefield

Week 9: Lights and Lasers, Cameras & Optical Communication

BLACKBOARD OPTICS

LIGHT PIPE

Week 10: Nuclear Bombs, Power, Medicine, Energy & Your Future