

Physics 10: Concepts in Physics

Week 1: Scientific Method

AIR TRACK
SHOOT THE MONKEY

Week 2: Newton's Laws

FLOATS IN JARS
SPINNING LARIAT

Week 3: Energy

CAR JUMP
CONSERVATION OF ENERGY DOUBLE TRACK

Week 4: Second Law of Thermodynamics

CRUSH THE CAN
BOYLE'S LAW

Week 5: Electricity and Magnetism

VAN DE GRAAFF
PITH BALLS
RODS AND FUR/CLOTH
JACOB'S LADDER
CHEMICAL BATTERY

Week 6: Electromagnetic Waves

2D MAGNETIC FIELD VIEWER
FORCE BETWEEN PARALLEL WIRES
ALUMINUM RINGS ON AC COIL
SWINGING PLATES IN MAGNETIC FIELD (GIANT VERSION)
MAGNET IN METAL TUBE
MAGNET WITH COIL
HOOT TUBE

Week 7: The Atom

SLINKY

INTERFERENCE PLATES
ACOUSTIC INTERFERENCE
ACOUSTIC BEATS
VERY LONG SPRING
TUNING FORKS
DOPPLER SHIFT
CHLANDI PLATES

Week 8: Quantum Theory

Week 9: Applications: Chemistry and Materials

Week 10: Applications: Nuclear Physics and Stars

GEIGER COUNTER WITH SOURCES
SPINNING CHAIR
BIKE WHEEL GYRO