

Physics 1C: Diffusion, Radiation, and Modern Physics

Week 1: Radiant Energy

SLINKY
WAVE MACHINE

Week 2: Propagation of Light: Scattering

BLACKBOARD OPTICS
LIGHT PIPE
THE MIRAGE
IMAGE OF LIGHTBULB
BLACKBOARD OPTICS
REFLECTION/REFRACTION TANK
RAINBOW PROJECTOR
COLOR MIXING PROJECTORS

Week 3: Geometrical Optics

BLACKBOARD OPTICS
EYE MODEL
MIRAGE
LIGHTBULB IMAGE

Week 4: Physical Optics

POLAROIDS
PHOTOELASTIC STRESS
RIPPLE TANK
LASER INTERFERENCE
NEWTON'S RINGS
SPECTRUM TUBE WITH DIFFRACTION GRATING
LASER DIFFRACTION

Week 5: Special Relativity

SPARK CHAMBER

Week 6: Modern Physics

Week 7: Quantum Theory

Week 8: Quantum Mechanics

Week 9: Nuclear Physics

RADIOACTIVE DECAY WITH GEIGER COUNTER

Week 10: High Energy Physics