

Physics 4B: Fluids, Waves, & Heat

Week 1: Fluids

CRUSH THE CAN
RULER LIFT
FLOATING BALL
VENTURI TUBE
TORRICELLI EFFECT

Week 2: Oscillations

WILBERFORCE PENDULUM
CHALANDI PLATES

Week 3: Wave Motion

WAVE MACHINE
FOURIER SYNTHESIS
BLACKBOARD STRING VIBRATOR

Week 4: Wave Motion & Sound

RIPPLE TANK
TUNING FORKS
HOOT TUBE
DB METER
CHALANDI PLATES
DOPPLER EFFECT
ACOUSTIC BEATS
ACOUSTIC INTERFERENCE

Week 5: Sound

Week 6: Temperature; Ideal Gas Law

Week 7: Kinetic Theory of Gasses; real gasses

Week 8: Heat; First Law of Thermodynamics

Week 9: Second Law of Thermodynamics

Week 10: Statistical view of entropy