

# Physics: CINEMA CLASSICS

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## Physics: CINEMA CLASSICS DVD 5

### Conservation Laws

#### Work and Energy

Work and Machines (EBEC, 1982)  
Nails Into Wood (PP, 1968)  
Pole Vault (PP, 1968)  
Work and Kinetic Energy (PSSC, 1959)  
Pile Driver (PP, 1968)  
Automobile Smasher (EBEC, 1961)

#### Energy Conservation

Swinging Bowling Ball (EBEC, 1961)  
Flying Acrobats (EBEC, 1961)  
Water Wheel (EBEC, 1961)  
Roller Coaster (NA, 1990)  
Skateboarding (NA, 1990)  
Rube Goldberg Device (PSSC, 1959)  
Carnival Ride (PSSC, 1959)

#### Linear Momentum

Recoil of a Cannon (PP, 1968)  
Momentum of a Rifle Bullet (PP, 1968)  
Air Table Pucks - Center of Mass (Ealing, 1968)  
Dry Ice Pucks - Defining Center of Mass (PSSC, 1966)  
Repulsive Dry Ice Pucks (PSSC, 1966)

#### Elastic Collisions

Pendulum Collisions-One Dimensional Elastic  
(PP, 1968)  
Pendulum Collisions-Two Dimensional Elastic  
(PP, 1968)  
Air Table - Elastic Collisions (Ealing, 1968)  
Collisions Between Magnetic Dry Ice Pucks  
(PSSC, 1966)  
Scattering of a Cluster of Objects (PP, 1968)

#### Inelastic Collisions

Pendulum Collisions - One Dimensional Inelastic  
(PP, 1968)  
Pendulum Collisions - Two Dimensional Inelastic  
(PP, 1968)  
Air Table - Inelastic Collisions (Ealing, 1968)  
Putty Dry Ice Pucks (PSSC, 1966)  
Air Track - Inelastic Collisions (Ealing, 1965)

#### Collisions

Automobiles (PSSC, 1961)  
Baseball and Bat (PSSC, 1961)  
Billiard Balls (PP, 1968)  
Football Drills (PSSC, 1959)  
Freight Cars (PP, 1968)  
Spheres and Magnets (EBEC, 1961)  
Tennis (PSSC, 1959)  
Wrecking Ball (PSSC, 1959)

#### Source Codes

Ealing	Ealing Films
EBEC	Encyclopaedia Britannica Educational Corp.
ESS	Elementary Science Study films
MH	McGraw-Hill Inc.
NA	Newton's Apple television series
NAP	North American Philips Corporation
PF	Phoenix Films and Video, Inc.
PP	Project Physics films
PSSC	Physical Science Study Committee films
VA	Visual Almanac, Apple Computer, Inc.

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