MOTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Ball on Oscillating Floor							◆																																
*Ballistics Car													◆																										
Bead Chain Siphon																																◆							
Beaker and Tablecloth				◆						◆					◆					◆				◆		◆				◆									
Bed of Nails																									◆						◆								
Bicycle Wheel Gyroscope	◆	◆		◆									◆	◆				◆	◆				◆				◆												
Block and Tackle																																	◆						
Board Breaking																											◆												
*Bowling Ball Pendulum	◆		◆	◆		◆	◆			◆	◆	◆	◆		◆	◆	◆	◆		◆			◆			◆	◆			◆										
Center of Percussion																											◆												
Chaotic Pendulums							◆									◆	◆	◆																					
Collision Balls												◆															◆												
Come-Back Can												◆				◆									◆														
Coriolis Force									◆															◆															
Coupled Pendulums						◆						◆				◆		◆																					
Deceleration																											◆												
Faster than g Stick																																◆							
Force Plate																											◆												
Friction																											◆		◆										
Guinea and Feather Tube						◆							◆								◆				◆					◆									
Hoberman Sphere																						◆														◆			
Hovercraft																													◆						◆				
Hydraulic Press																											◆						◆						
Inclined Plane												◆																											
Inertia Ball										◆															◆														
Levers											◆																												
Lung Capacity											◆																												
Mars Gravity Simulator																														◆									
*The Monkey and the Coconut			◆												◆					◆									◆										
Moving Spool				◆									◆												◆														
Non-Newtonian Fluid																												◆				◆							
Oscillating Cart							◆											◆																					
Pail of Water				◆			◆						◆								◆			◆															
Ping-Pong Ball Cannon																						◆					◆			◆	◆			◆		◆			
Projectile Motion																											◆												
Random Walk							◆											◆																					
*Reaction Time						◆					◆				◆							◆					◆												
Revolving Ball and Cut String				◆																		◆				◆													
Rockets				◆		◆				◆				◆				◆	◆		◆		◆	◆	◆		◆	◆	◆					◆		◆				
Rolling Chain			◆																		◆				◆														
Rotating Platform																											◆			◆				◆					
Stack of Cards											◆																					◆							
Train on Bicycle Wheel																			◆												◆								
Wheel and Axle												◆																											
*Wilberforce Pendulum			◆									◆				◆																							

HEAT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Alcohol Explosion												◆					◆		◆																				
Archimedes' Principle																								◆															
Bell Jar						◆																																	
Bernoulii Effect									◆					◆						◆		◆		◆		◆	◆								◆				
Boiling water in a paper cup																																			◆				
Boiling with Ice																					◆		◆									◆							
Carbon Dioxide Trough	◆	◆								◆											◆										◆					◆			
Collapsing Can	◆	◆											◆		◆								◆							◆			◆						
Dripping Faucet							◆																	◆															
Egg in a Bottle																									◆														
Exploding Balloons				◆						◆			◆	◆		◆		◆	◆							◆		◆	◆				◆	◆	◆	◆				
Exploding Soap Bubbles	◆	◆								◆			◆		◆		◆			◆			◆							◆									
Firehose Instability							◆																	◆															
Fire Tornado																									◆			◆	◆				◆		◆	◆			
Freezing by Evaporation	◆	◆							◆												◆			◆			◆					◆			◆				
Greenhouse Effect																													◆										
Heat Conduction											◆					◆																				◆			
Heat Convection			◆						◆							◆															◆			◆					
Heat Transmitter						◆		◆				◆				◆																	◆	◆					

Hero's Engine				◆					◆				◆			◆						◆															
Ice Bomb																		◆																			
Infrared Camera																														◆		◆	◆				
Kinetic Theory Simulator							◆																														
Kid in a Soap Bubble																							◆														
Leidenfrost Effect									◆					◆								◆									◆						
Liquid Methane																				◆																	
Liquid Nitrogen				◆		◆			◆					◆				◆					◆	◆		◆					◆						
Liquid Nitrogen Cannon	◆	◆	◆	◆		◆		◆		◆		◆	◆		◆					◆						◆			◆	◆		◆	◆			◆		
Liquid Nitrogen Cloud	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
Magdeburg Hemispheres									◆				◆									◆			◆	◆								◆			
Model Geyser	◆	◆	◆				◆			◆			◆			◆				◆			◆					◆									
Neutral-buoyancy Balloon																		◆							◆												
Nonburning Handkerchief	◆							◆						◆	◆																		◆				
Radiometer												◆																									
Regelation																						◆															
Smoke Rings				◆																						◆				◆							
States of Matter																															◆						
The Impossible Balloon																			◆																		
Toilet Paper Gun																																	◆				
Tornado Model									◆			◆																									
Turning Copper into Gold																							◆														
Weight of Air														◆																							

SOUND	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**
Acoustic Resonance					◆											◆							◆					◆											
Beat Frequencies			◆		◆								◆			◆							◆					◆											
Bell in Vacuum					◆	◆							◆									◆								◆									
*Breaking a Beaker with Sound				◆	◆																							◆					◆		◆				
Breathing He and SF6	◆	◆	◆		◆	◆				◆	◆		◆			◆					◆									◆						◆	◆			
Chladni Plates																										◆							◆			◆				
*Doppler Effect					◆						◆			◆				◆	◆						◆		◆	◆					◆	◆						
*Flame Pipe				◆	◆					◆					◆						◆							◆			◆		◆		◆				
Hoot Tube																																			◆				
Longitudinal Wave																														◆	◆								
Nailolian																				◆																			
*Oscilloscope Waveforms	◆	◆	◆	◆	◆	◆	◆			◆	◆		◆		◆	◆	◆	◆				◆	◆							◆	◆	◆							
Range of Hearing																													◆			◆							
Singing Rod										◆										◆																			
Sound Tube																													◆		◆								
Speed of Sound									◆					◆			◆		◆								◆			◆									
Standing Waves																										◆	◆		◆			◆							
Ultrasound					◆	◆					◆						◆						◆	◆		◆			◆	◆		◆	◆						
*Wave Speed on a Rope					◆																	◆									◆								

ELECTRICITY	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**
Chaos Circuit							◆																◆					◆												
Conductivity of Water																								◆															
Electric Forces on Charged Rods																																			◆				
Electric Pickle																																◆							
Electrolysis																			◆					◆						◆						◆			
Electrophoresus																					◆																		
Exercise Bike											◆	◆							◆								◆		◆										
Exploding Wire						◆		◆				◆			◆						◆		◆					◆							◆				
Faraday Cage		◆	◆	◆		◆		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆							◆						◆				
Faraday Train																																			◆				
Gas Discharge Tube			◆					◆													◆					◆													
Jacob's Ladder		◆								◆			◆							◆					◆			◆						◆	◆				
Marx Generator									◆																◆								◆						
Microwaves																																◆		◆	◆				
Neon Bulb Flasher							◆																																
Ohm's Law Board																																◆							
Plasma Globe																	◆				◆											◆							
Radio Transmitter																																			◆				
Solar Cell												◆						◆	◆																	◆			
Static Electricity Wand																										◆							◆						

Tesla Coil	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆			◆	◆	◆	◆	◆	◆	◆			◆				
Theremin																												◆											
Van de Graaff Generator	◆	◆	◆	◆					◆	◆	◆		◆		◆	◆	◆	◆		◆										◆			◆	◆					
Waterwheel																								◆	◆														
Wimshurst Generator			◆									◆				◆									◆														

MAGNETISM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Can Crusher	◆	◆	◆			◆				◆			◆							◆					◆					◆		◆							
Double Cone on Rails																																◆							
Eddy Currents																				◆						◆				◆	◆					◆			
Ferrofluids																														◆		◆		◆					
Force on Currents																◆																							
Hertz Experiment																◆					◆																		
Inductive Energy												◆						◆																					
Iron in Cereal																																				◆			
Jumping Ring	◆	◆		◆						◆		◆	◆	◆			◆		◆							◆				◆			◆	◆	◆				
Levitated Ball	◆	◆	◆				◆						◆	◆			◆	◆					◆			◆		◆				◆	◆		◆				
Lorentz Force																																◆							
Magnet with CRT			◆												◆	◆						◆									◆			◆					
Magnetic Field Lines																												◆				◆							
Magnetic Guillotine										◆					◆								◆												◆				
Magnetic Induction															◆	◆															◆	◆	◆	◆	◆	◆			
Motor Generator																◆		◆																					
Oersted Effect														◆		◆																◆							
Superconductors				◆		◆		◆							◆		◆								◆			◆				◆	◆	◆					

LIGHT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Candle Burning Under Water																						◆		◆		◆													
Chun Gun											◆																												
Color Mixing																												◆											
Color Schlieren							◆																																
Fluorescence				◆				◆										◆										◆			◆		◆		◆				
Fractals							◆		◆											◆								◆			◆								
Geissler Tubes																◆							◆							◆									
Laser Beam	◆					◆			◆	◆			◆		◆				◆						◆			◆			◆		◆	◆					
Laser Gun			◆	◆											◆			◆												◆				◆	◆				
Light Guide	◆					◆				◆	◆							◆	◆						◆				◆			◆				◆			
Optical Illusions			◆																			◆				◆													
Pepper's Ghost		◆	◆														◆		◆										◆										
Phosphorescent Screen																					◆																		
Polarized Light																																	◆						
Prism Rainbow	◆			◆		◆		◆	◆	◆	◆				◆	◆				◆				◆		◆		◆				◆	◆		◆				
Rayleigh Scattering									◆					◆						◆										◆									
Refraction																								◆															
Snowflakes																								◆															
Speed of Light																			◆													◆							
Strobe Light					◆							◆		◆																									
Talking Head		◆	◆														◆									◆		◆											
Tubeless Television			◆								◆						◆											◆											
Twinkling Stars						◆							◆						◆											◆		◆		◆					
Video Feedback							◆																																
Water Light Guide	◆	◆											◆											◆	◆							◆							

MODERN PHYSICS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Blackbody Radiation								◆																					◆										
Brownian Motion								◆														◆									◆					◆			
Cloud Chamber								◆																												◆			
Geiger Counter							◆	◆			◆							◆																◆					
Line Emission								◆								◆										◆										◆			
Mousetrap Chain Reaction								◆				◆					◆																	◆					
Oscillating Chemical Reaction																															◆								
Photoelectric Effect								◆														◆																	
Plasma Thruster																																		◆					
Radioactive Decay																																				◆			
X-Rays								◆			◆																						◆						

*Also available in computer animation. Rev. March 2013