



Sensor	Code	What apparatus can sensor be used in conjunction with or enhance?	Possible Experiments	Level
Voltage	900-101	All electrical circuitry apparatus (pp.186-190); Faraday's Law apparatus (194); Demonstration motor AC/DC (200); LeXsolar experiment system (46); Demountable transformer (199)	Measure the voltages at different parts of an electrical circuit; measure resistance using Ohm's law; Show the induced voltage when magnet moves a coil; Demonstrate the voltage obtained from an AC and DC dynamo;	KS4, KS4 and KS5
Temperature	900-103	Basic apparatus; Calorimeters on p223	Investigate insulating properties of various materials; finding the specific heat capacity of various metals	KS3, KS4 and KS5
Force	900-111	Dynamics system (208); Dynamics trolleys and track p207/208; In conjunction with light gates and motion sensor; Linear air track (206)	Measure the force when a vehicle rolls down a slope; Investigate crumple zones in car bumpers	KS3, KS4 and KS5
Current	900-102	All electrical circuitry apparatus (pp.186-190); Induced current apparatus (195)	Measure the voltages at different parts of an electrical circuit; measure resistance using Ohm's law;	KS3, KS4 and KS5
Light Gate	900-109	Dynamics system (208); Dynamics trolleys and track p207/208; Linear air track (206)	Measure acceleration; velocity; prove conservation of momentum; Measure acceleration due to gravity.	KS3, KS4 and KS5
Light	900-104	Rayboxes (p227) Light and optics kits; prisms and lenses (229-232);	Measure light intensity from various sources; Laws of reflection; inverse square law	KS3, KS4 and KS5
Pressure	900-110	Basic apparatus plus temperature sensor	Pressure determinations; Verification of Boyle's Law and Pressure Law; Rates of reaction where there are changes in gas volume	KS3, KS4 and KS5
Sound	900-112	Basic apparatus; tuning forks (259-260); resonance apparatus (260); Doppler Ball (259); Sound energy kit	Show the sound waves generated by a vibrating tuning fork; inverse square law; The frequency of a source and the wavelength of the sound produced; the speed of sound in air.	KS3, KS4 and KS5
Motion	900-123	Dynamics system (208); Dynamics trolleys and track p207/208; In conjunction with light gates and motion sensor; Linear air track (206); Extension springs (217) and masses (242)	Distance-time and velocity-time graphs; simple harmonic motion (vibrating spring)	KS3, KS4 and KS5
Magnetic field	900-124	The products dealing with magnetism from p235-239;	Plot magnetic field around magnets of various types and sizes; Effect of current on strength of magnetic field;	KS3, KS4 and KS5
Force plate	900-135	Newton masses; basic apparatus	Verify Newton's Law of Motion	KS4 and KS5
Acceleration	900-137	Dynamics system (208); Dynamics trolleys and track p207/208; In conjunction with light gates and motion sensor; Extension springs (217) and masses (242)	Newton's Laws of motion; Velocity-time graphs; simple harmonic motion of a vibrating spring.	KS4 and KS5