The possible uses for the Edulogger-sensors

Subject = Physics

Edulogger - Sensor	Cat. code	What apparatus can sensor be used in conjunction with or enhance?	Possible Experiments	Level
Voltage	900-201	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	900-203	Basic apparatus; Calorimeters on p223	Investigate insulating properties of various materials; finding the specific heat capacity of various metals; Radiation experiments with comparometer	KS3, KS4 and KS5
Force	900-211	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 crumble zones on car bumpers. Simple harmonic motion of a vibrating spring.	KS3, KS4 and KS5
Current	900-202	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	900-209	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	900-204	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	900-210	Basic apparatus plus temperature sensor	Pressure determinations; Verification of Boyle's Law and Pressure Law; Rates of reaction where	KS3, KS4 and

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			there are changes in gas volume	KS5
Sound	900-212	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	900-223	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	900-224	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	900-235	Newton masses; basic apparatus	Verify Newton's Law of Motion. Any experiment where high levels of force (-80 to +300kg) need to be measured.	KS4 and KS5
Acceleration	900-237	Dynamics system (208); Dynamics trolleys and track p207/208; In conjunction with light gates and motion sensor; Extension springs (217) and masses (242); Doppler Ball	Newton's Laws of motion; Velocity-time graphs; simple harmonic motion of a vibrating spring. Acceleration on all 3 Axis's	KS4 and KS5
Infrared thermometer	900-245	Radiation experiments e.g. with the Leslie cube to measure radiation emitted by different surfaces;	Radiation experiments	
Magnetic field	900-224	Magnets and electromagnets; magnetic field apparatus	Any experiment involving the plotting of a magnetic field or the measurement of the intensity of a magnetic field	KS3; KS4 and KS5
Charge	900-263	Van de Graaff; gold leaf electroscope;	Measure the charge produced by friction or by	KS5

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		electrostatics kit	induction;	
Surface temperature	900-243	Along with IR sensor; any radiation apparatus	Compare the radiation emitted from a surface with its actual surface temperature.	KS3; KS4 and KS5
Wide range temperature	900-244	Thermocouples along with voltage sensor	Measure the voltage obtained from thermocouple under different temperature ranges. Heat of a flame. Any experiments where extremes of temperature can be measeured.	KS3 and KS5
Geiger	900-264	Radioactive sources.	Measurement of Radiation	KS5
Rotary Motion	900-236		Measure Rads, Revs and Angles and can be used as a Pendulum sensor too.	KS4/5