	Name:	PAG	1	2	3	4	5	6a	6b	7a	7b	8	9	10	11	12
		Date	/	/	/	/	/	/	/	/	/	/	/	/	/	/
1.2.1	**a)** apply investigating approaches to practical work															
	b) safely use a range of practical equipment & materials															
	c) follow written instructions															
	d) make and record observations/measurements															
	e) keep appropriate records of experimental activities															
	f) present information and data in a scientific way															
	g) use appropriate software to process data, research and report findings															
	h) research, incl. websites, textbooks and other scientific sources of information															
	i) correctly cite sources of information															
	j) use a range of experimental and practical equipment and techniques															
1.2.2	**a)** use apparatus to record a range of measurements (mass, time, vol & temp)															
	b) use of a water bath for heating															
	c) measurement of pH using pH meter on a data logger															
	d)(i) use of burette and pipette in titration															
	d)(ii) use apparatus for distillation, incl. setting up glassware with stand & clamp															
	d)(ii) use apparatus to heat under reflux, incl. setting up retort stand & clamp															
	d)(iii) use of apparatus for qualitative tests for ions															
	d)(iii) use of apparatus for qualitative tests for organic functional groups															
	d)(iv) use of apparatus for filtration, including gravity and vacuum filtration															
	e) use of a volumetric flask, incl. technique for making up a standard solution															
	f) use of acid–base indicators in titration of weak/strong acid + weak/strong alkali															
	g)(i) purification of a solid product by recrystallisation															
	g)(ii) purification of a liquid product, including use of a separating funnel															
	h) use of melting point apparatus															
	i) use of thin layer or paper chromatography															
	j) setting up of electrochemical cells and measuring voltages															
	k) safely handle corrosive, irritant, flammable & toxic solids and/or liquids															
	l)(i) measurement of rate by an initial rate method such as a clock reaction															
	l)(ii) measurement of rates of reaction by a continuous monitoring method															