Core Practical		"Techniques and apparatus" - Appendix 5c											
		1	2	3	4	5	6	7	8	9	10	11	12
1	Determine the acceleration of a freely falling object.	✓	✓		✓							✓	
2	Determine the electrical resistivity of a material.	✓	✓			✓	✓	✓					
3	Determine the e.m.f. and internal resistance of an electrical cell.		✓				✓	✓					
4	Use a falling-ball method to determine the viscosity of a liquid.	✓	✓	✓	✓	✓							
5	Determine the Young modulus of a material.	✓				✓							
6	Determine the speed of sound in air using a 2-beam oscilloscope, signal generator, speaker and microphone.	✓		✓					✓	✓			
7	Investigate the effects of length, tension and mass per unit length on the frequency of a vibrating string or wire.	✓	✓						✓				
8	Determine the wavelength of light from a laser or other light source using a diffraction grating.	✓		✓							✓		
9	Investigate the relationship between the force exerted on an object and its change of momentum.	✓		✓	✓							✓	
10	Use ICT to analyse collisions between small spheres, e.g. ball bearings on a table top.			✓		✓						✓	
11	Use an oscilloscope or data logger to display and analyse the potential difference (p.d.) across a capacitor as it charges and discharges through a resistor.		✓				✓		✓			✓	
12	Calibrate a thermistor in a potential divider circuit as a thermostat.	✓	✓	✓			✓						
13	Determine the specific latent heat of a phase change.	✓	✓										
14	Investigate the relationship between pressure and volume of a gas at fixed temperature.	✓											
15	Investigate the absorption of gamma radiation by lead.		✓	✓		✓							✓
16	Determine the value of an unknown mass using the resonant frequencies of the oscillation of known masses.	✓	✓	✓	✓							✓	

	CPAC statements										
	1a	2a	2b	2c	2d	3a	3b	4a	4b	5a	5b
1	1	1						1			
2			1					1			1
3					1	1			1		
4	1								1		1
5	1						1				1
6			1					1		1	
7			1	1					1		
8	1	1				1					
9	1			1					1		
10		1			1					1	
11			1			1				1	
12		1				1		1			
13			1		1		1				
14				1			1			1	
15				1		1	1				1
16					1			1	1		