## P5 Electric circuits revision questions

1	What voltage is UK mains supplied at ?					
2	UK mains supply operates at 50Hz a.c. What does this mean ?					
3	Sketch a graph of current vs time for a d.c supply.					
4	What colour is the live wire in a UK mains plug ?					
5	The peak voltage of mains electricity is 325V. Between which two values does the live wire change					
	between ?					
6	Why is the earth pin on a mains plug longer than the other two pins ?					
7	Which wire is connected through a fuse in a plug ?					
8	Why might an appliance not need an earth wire ?					
9	A fuse has a 13A rating. What does this mean?					
10	A 12W bulb is used for 2 minutes. How much electrical energy has been transferred ?					
11	How is an appliance made safe when the live wire touches the metal case ?					
12	What would happen if a 5A fuse were fitted to a 10A device ?					
13	What current will flow if a 1500W mains (230V) washing machine was in operation ?					
14	If each KWh of electricity costs 12p. How much will it cost to run a 2000W heater for 3 hours ?					
15	Write in the correct unit next to each quantity		16	Why is it better to transport electricity across the National grid at high	17	Alternating Current (AC)
	Charge			voltage and low current ?		240 240 Volts AC
	Current					V 120 Relative Ground (0 Volts AC) or "Ground"
	Time					
	Resistance					
	Potential					
	difference					-240 1/60 second
	Power					
	Energy					What is the frequency of this a.c supply ?