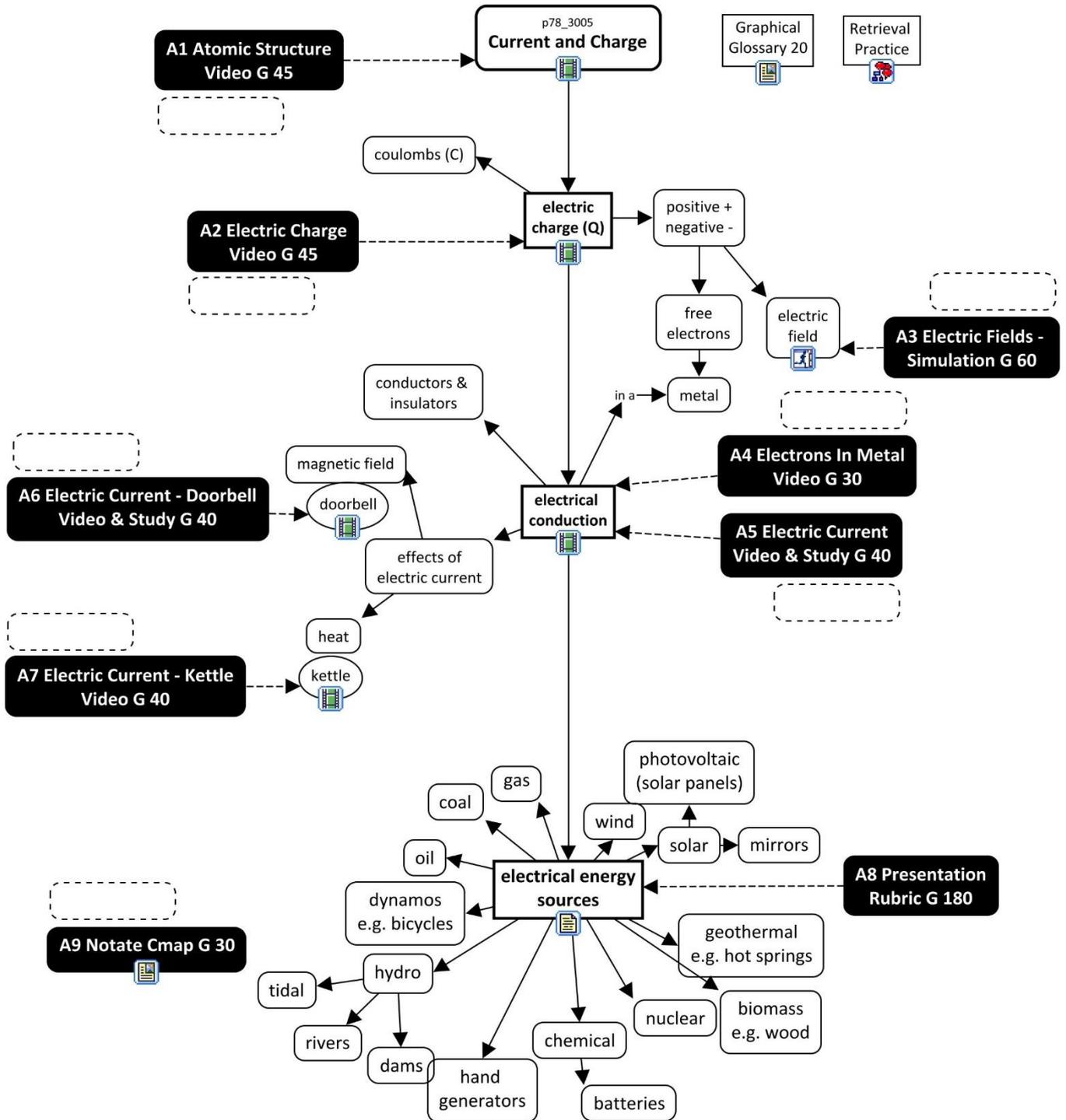




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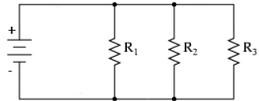
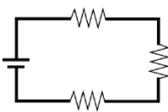
Plan: Before you start show MrD your plan.

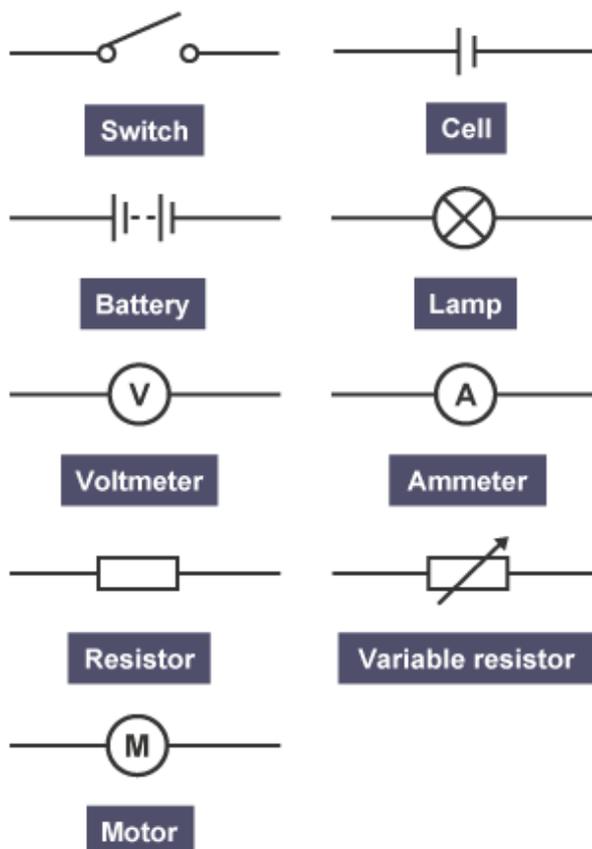
	Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	Lesson 6
Date						
Plan						



cell	a device for converting chemical energy into electrical energy, usually consisting of a container with two electrodes immersed in an electrolyte, 2 or more = battery	
circuit	a complete path through which an electric current can flow	
circuit symbol	used to represent parts of a circuit	
conduction	the transfer of energy, such as heat or an electric charge, through a substance	
conductor	a substance, body, or device that readily conducts heat, electricity, sound,	
coulomb	6×10^{18} electrons	
earthing	connecting an electrical conductor and the Earth	
electric charge (Q)	Q - a quantity of electricity determined by the product of an electric current (I in amperes) and the time (t in seconds) for which it flows, measured in coulombs - $Q=I \times t$	
electric current	a flow of electric charge - the SI unit of _____ is the ampere (A). This is equal to one coulomb of charge in one second.	
electric field	a vector field that shows the direction that a positively charged particle will move when placed in the field	
electron	a stable elementary particle present in all atoms, orbiting the nucleus in numbers equal to the atomic (proton) number of the element in the neutral atom; negatively charged	
electron flow	a flow of negative electric charge	
electrostatic charge	is a physical property of matter which causes it to experience a force when near other electrically charged matter. _____ comes in two types, called positive and negative.	
free electrons	an electron that is not attached to an atom or molecule and is free to respond to outside forces.	
insulator	a material of such low conductivity that the flow of current through it is almost zero	
ion	an electrically charged atom or group of atoms formed by the loss or gain of one or more electrons, as a cation (positive ion) which is created by electron loss or as an anion (negative ion) which is created by an electron gain	
magnetic field	a field of force surrounding a permanent magnet or a moving charged particle	
negative charge	having a surplus of electrons with respect to the number of protons	



nucleus	the positively charged mass within an atom, composed of neutrons and protons, and possessing most of the mass but occupying only a small fraction of the volume of the atom	
parallel circuit	components in a circuit connected parallel (compare: series) 	
positive charge	having a deficiency of electrons with respect to the number of protons	
potential difference	A measure of the work required by an electric field to move electric charges. Its unit is the volt. Also called voltage .	
series circuit	something connected in line (compare: parallel) 	
thermal	caused by heat or temperature	





Criteria	Excellent	Good	Fair	Poor
Title Page Includes a title page	15 points Includes name, presenter's name, at least one graphic demonstrating its use	10 points Includes name, presenter's name, graphic does not demonstrate its use	5 points Includes only name and presenter's name,	0 points No title page
Graphics Includes at least two graphics	25 points Includes two graphics one representing its use and one of student's choice. Choices are good and significant.	15 points Includes two graphics one representing its use and one of student's choice. Not necessarily the best choices.	5 points Includes two graphics one representing its use and one of student's choice. Purpose unclear for choice	0 points One or no graphics present
Timeline Includes significant events in the development of source.	25 points Includes at least five significant events in the development of source.	15 points Includes at least three significant events in the development of source.	5 points Includes less than three significant events in the development of source.	0 points No timeline present
Science of Use Includes background information on the science behind the source.	30 points Includes a clear and detailed presentation of the science behind the source.	20 points Includes a presentation of the science behind the source.	10 points Includes a brief overview of the science behind the source.	0 points Does not include background information on the science behind the source.
Precautions Includes precautions required when using this technology	20 points Includes a clear and detailed presentation of the precautions required when using this technology	10 points Includes a presentation of the precautions required when using this technology	5 points Includes a brief overview of the precautions required when using this technology	0 points Does not include precautions required when using this technology
Use Includes a description of the use of this technology	35 points Includes a clear and detailed description of the use of this technology	25 points Includes a description of the use of this technology	15 points Includes a brief overview of use of this technology	0 points Does not include a description of the use of this technology
Risks vs Benefits Includes a summary of the risks and benefits of this technology	25 points Includes a clear and well-presented summary of the risks and benefits of this technology	15 points Includes a summary of the risks and benefits of this technology	5 points Includes a brief summary of the risks and benefits of this technology and omits important risk/benefit pairs	0 points Does not include a summary of the risks and benefits of this technology
Ending Ending includes an overview of the key points of the presentation and invites questions	25 points Ending includes an overview of the key points of the presentation and invites questions	15 points Ending includes an overview of some of the key points of the presentation but omits others and invites questions	5 points Ending includes a poorly presented overview of the key points of the presentation	0 points Ending does not include an overview of the key points of the presentation and does not invite questions

