	8F The Periodic Table		An idea about how something		A vertical column in the	5	. Chemical T	rends
		Hypothesis	works that can be tested using	Group	Periodic Table- contains	Alkali Metals & Water	Alkali metals	produce metal
			experiments.	Group	elements with similar		hydroxides a	nd hydrogen
		Prediction	What you think will happen in		properties.		when reactin	ig with water.
			experiment and why.	Alkali	Group 1		(sodium + wo	oter $ ightarrow$ sodium
1 Dalton's Atomic Model		Conserving	The mass of the products of a	Metals	Very reactive metals, they even		hydroxide + ł	ıydrogen)
Mattor	All things are made of matter	Mass	reaction will be the same as the		react with water.		Alkali metals	produce metal
lohn			mass of the reactants.		Group 7	Alkali	oxides when	reacting with
Daltan	(1700-1844)		The combination of symbols	Halogens	React with most metals to form	Metals &	oxygen.	
Daiton	All matter is made up of	r is made up of an element are Each element has its	and numbers that shows how		solid compounds.	Oxygen	(lithium + oxy	ygen $ ightarrow$ lithium
	atoms		many atoms of different Noble element are in a particular Gases molecule.	Noble	Group 0		oxide)	
	atoms in an element are identical. Each element has its			Unreactive gases	Peactivity	How quickly	/ vigorously	
					4 Physical Trands	Reactivity	something re	eacts.
			e.g. water is H ₂ O		4. Physical frenus	Alkali Metal	As you move	down the group
Dalton's	own type of atom.		Comparison of the proportion	Nielting	from a substance changes	Reactivity	the reactivity	increases.
Atomic C	 atoms cannot be destroyed of created. 	Ratio	of two quantities <i>e.g. in water</i> there are 2 hydrogens for every		Ovides	Formed wher	n elements	
				Boiling	when a substance changes	Oxides	react with ox	ygen.
Theory	 In compounds each atom is always joined to a fixed 		oxygen, the ratio is 2:1	Point	from a liquid into a gas.	Ovida	When we dis	solve oxides in
		2	Mondology's Table	Freezing f Point	when a substance changes		water there i	s a trend in
	number of other atoms.	5.			from a liquid into a solid- the		their pH. Furt	ther to the left
	• atoms rearrange during		(1780-1849)	Isame as the melting point. Heating Substances How temperature depends on time (as sulfur is heated)		Trends	of the Period	ic table oxides
	chemical reactions to form	Johann	bighlighted come groups of 2				formed are m	nore alkaline.
	new substances.	Döbereiner	aloments had similar physical (At the me energy b	elting point, the extra eing supplied by heating		Further to th	e right they are
Atoms	Small particles that all matter is		chemical proportion	500 the solid temperat	does not increase the ure but allows the to break away from their		more acidic.	
	made up of.			G 400 fixed arra	ingement and move over gas			
Element	A substance made up of one		(1837-1898)		The temperature of the			
Compound	kind of atom.	John	elements by the mass of stoms		boils. The extra energy being supplied by heating			Mamariand
	Contains atoms of two or more	Newlands	elements by the mass of atoms	<u>100</u> 200 200 	allows the particles to escape as a gas.	Lesson		wemorised?
	different elements chemically		and noticed every 8 th element	100- 5010	liquid	1. Dalton's Atomic		
	Joined together.		(1824 1007)	0 1	0 20 30 40 50 60 70	Model		
Physical	The properties that describe a		(1834-1907) Russian chamist who published	(5-1		2. Chemica	al j	
Properties	substance on its own.		the first periodic table by	Periods	The norizontal rows in the	Properties		
	(colour, strength, density, etc.)	Dmitri	the first periodic table by		Periodic table.			
Physical	A change in which no new	Mendeleev	increasing masses of their	Transition	Block of elements in the middle	3. Mendeleev's 4. Physical Trend	eev's Table	
Changes	substances are formed.		Increasing masses of their	Metals	of the Periodic table- separates			
Symbols	Letters used to represent the		atoms forming groups of		the eight main groups.		Trends	
	elements.		Similar properties.	Metal	High melting points, strong,	5. Chemical 1		
	e.g. C represents Carbon		iviendeleev left gaps in his	Properties	flexible, malleable, shiny, good		al Trends	
2	Chemical Properties	Gaps	table for undiscovered		conductors.			
Chamical	How a substance reacts with		elements and predicted their	Non-Meta	Low melting points, brittle,			
Droportion	other substances		properties.	Properties	dull, poor conductors.			
roperties	other substances.							