8F The Periodic Table - Revision Worksheet Describe what atoms are. Describe what John Dalton wrote about his atomic theory.	Use your periodic table to find the symbols for the following elements : Iron Zinc Gold Oxygen Carbon Mercury Explain why having internationally agreed upon symbols for elements is important	Complete the table below by describing the work each scientist did to arrange the elements: Johann Döbereiner John
• • •	Define the term chemical properties.	Dmitri Mendeleev
•	Complete the diagram below to show what happens when copper reacts with oxygen .	Describe how Mendeleev made sure elements fit into groups with similar properties.
Define the term physical properties . Add some examples of physical properties to the spider-diagram below:		On the periodic table below label where the alkali metals , halogens and noble gases can be found:
Physical Properties	Calculate the mass of zinc oxide produced 10g of zinc is reacted with 3g of oxygen .	
Describe the physical properties of any element .	State the chemical formulae for the compound below and which elements are present.	Explain what happens to a substances temperature when it is melting .

Define the following words:	Describe the trend in melting points as you	Rate the following on how well you think you can do them:
Irena	1 elements.	
Group		
Period		I can
		Describe Dalton's atomic theory.
Complete the		 Describe elements using physical properties.
table by adding Metals	Non-Metals	Write and identify the chemical symbols for elements.
properties of metals and		 Explain the difference between physical and chemical changes and properties.
non-metals:		 Use atomic theory to explain what happens during chemical reactions.
		Write and interpret chemical formulae.
Describe the physical properties	Describe the chemical properties	Identify and write single-clause sentences.
of the alkali metals .	of the alkali metals .	 Link ideas clearly in sentences by using coordinating and subordinating conjunctions.
		Use the periodic table to find elements with similar properties.
Complete the following word equations :		 Describe some typical properties of alkali metals, halogens and noble gases.
$Potassium + Water \rightarrow$		 Describe how the periodic table is arranged.
Lithium + Water →		Explain what is meant by an anomalous result (outlier).
Potassium + Oxygen →		Identify anomalous results and the range of readings in data.
Phosphorus + Oxygen →		Suggest reasons for anomalous results / outliers.
Describe the reaction of potassium and water .	Describe the trend in oxides formed by elements .	 Explain melting, freezing and boiling points and use them to predict the state of a substance.
	· · · · · · · · · · · · · · · · · · ·	 Describe and identify trends in physical properties within the periodic table.
Describe the trend in reactivity as you move down the alkali metals group.		 Identify metals and non-metals by their properties and position in the periodic table.
		Describe the reactions of some elements with water and oxygen.
		 Identify trends and make predictions about chemical properties using the periodic table.