

LESSON PLAN

SUBJECT	SCIENCE	CLASS – VIII	NO. OF PERIODS REQUIRED : 5
LESSON TO BE TAUGHT	Chapter : 4 — Metals & Non-Metals		
MY FOCUS	- Physical properties of metals and non-metals (malleability, ductility, etc.) - Chemical properties of metals and non-metals (reaction with oxygen, water, acids, bases etc.) - Displacement reaction - Uses of metals and non-metals - Metalloids		
STUDENT ACTIVITY	- Demonstration of displacement reaction between copper sulphate (CuSO_4) and iron (Fe) - Demonstration of reaction of metal (Na) with water to produce sodium hydroxide (NaOH) and hydrogen gas (H_2). $2\text{Na} + 2\text{H}_2\text{O} \rightarrow 2\text{NaOH} + \text{H}_2$		
PRACTICE ASSESSMENT	Q1. What do you mean by terms malleability and ductility in metals? Ans. Malleability is a characteristic property of metals by which they can be beaten into thin sheets .Ductility is the property of metals by which they can be drawn into thin wires.		
	Q2. What are metalloids? Give some examples. Ans. Metalloids are elements having properties of both metals and non-metals. For e.g. Arsenic , Antimony etc.		
	Q3. What happens when sulphur dioxide is dissolved in water? Ans. When sulphur dioxide is dissolved in water, sulphurous acid is formed. Reaction : $\text{SO}_2 + \text{H}_2\text{O} \rightarrow \text{H}_2\text{SO}_3$		
ADDITIONAL INFORMATION	- Silver conducts electricity better than any other metal. - Aluminium can be recycled over and over again without any loss of quality.		
CAN DO STATEMENTS	- Students are able to differentiate between metals and non-metals on the basis of their physical and chemical properties. - Students are able to write word equation for chemical reactions. For e.g. Reactions of metals and non-metals with oxygen, water, acids etc. - Students can explain displacement reaction with the help of examples. - Students are able to explain uses of metals and non-metals. - Students can explain the term “metalloids” with examples.		