## CLASS-10 PHYSICAL SCIENCE

## **UNIT PLAN**

## **CHAPTER: 13 – PRINCIPLES OF METALLURGY**

PERIOD NUMBER	CONCEPTS / TEACHING POINTS	PAGES IN TEXT BOOK		REMARKS
		FROM	то	KEWIAKKS
1.	Metals – properties			
	Mineral – Ores			
	Some ores and their formulas	286	288	
	Ores – metals present in the ores			
	Reactivity of metals			
2.	Steps involved in extraction of metal from ore	288	290	
	Concentration of ore – methods			
	(Hand picking, washing, froth floatation, magnetic			
	separation)			
3.	Reactivity of metals	291	291	
	Reaction with oxygen, cold water, water vapour,			
	strong dilute acids and chlorine			
4.	Extraction of crude metal from the ore			
	Reduction of the ore to the purified metal as per the	292	294	
	reactivity of the metal			
5.	Purification of crude metal – methods	294	295	
	Distillation, poling, liquation, electrolytic refining			
6.	Corrosion	296	297	
	Experiment – corrosion of iron			
	Preventive methods of corrosion			
	Alloys			
7.	Important methods used in metallurgy			
	Smelting – blast furnace	298	299	
	Roasting – calcinations	270	ムフフ	
	Reverbaratory furnace – retort furnace			

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