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Beckfoot

Science

Metals and Non-metals

Year 7



Beckfoot						
Reactions of metals			Most reactive	Key Vocabulary		
Reactants	Products	potassium sodium calcium magnesium aluminium	A more reactive metal	Ι	Oxidation	The reaction where a
Metal + acid	Salt + hydrogen					substance combines with oxygen
Metal + oxygen	Metal oxide	zinc	will displace a	2	Displacement	A reaction a
Metal + water	Salt + metal hydroxide	iron lead (hydrogen)	less reactive metal from a		more react metal takes	more reactive metal takes the place of a less
Properties of metals and non- metals		copper mercury silver gold	compound Least reactive			reactive metal in a compound
				3	Reactivity series	A list of elements which shows
Metals	Non-metals					how reactive
High melting point	Low melting point	Reactions with oxygen				they are compared to each other
	Poor conductors of heat	Iron filings	Burns producing yellow sparks	4	Sonorous	Rings when it is
Form basic oxides	Form acidic oxides	Magnesium ribbon	Burns with a bright light; grey ash formed	5	Malleable	hit (e.g a metal) Can be
	Low density	Sodium	Shiny surface quickly tarnishes (becomes	5		hammered into shape
Sonorous	Not sonorous		full)		Ductile	•
Ductile and malleable	Brittle	Carbon	Carbon dioxide gas is formed	6	Ducule	Can be pulled into a wire