

The fundamental ideas in chemistry

1.	electron nucleus neutron	each for 1 mark		
				[3]
2.	(a) (i) B		1	
	(ii) D		1	
	(b) A and B – only one type of atom		1	
	C and D – more than one type of atom		1	
		accept element for atom		
		ignore the word 'mixture'		
	(chemically) bonded		1	
		accept (chemically) joined or similar idea of joined		
				[5]
3.	B carbon monoxide		1	
	CO	accept carbon oxide	1	
		do not credit carbon dioxide		
		do not credit if any superscripts or subscripts used but accept C ₂ O ₂		
		accept OC		
		do not credit if obviously lower case		
	C water		1	
	H ₂ O	accept hydrogen oxide	1	
		do not accept hydrogen hydroxide		
		do not credit if obviously lower case or if 2 not subscript		
		do not accept HOH		
		accept OH ₂		
	D ammonia	do not accept ammonium	1	
	NH ₃	do not credit if obviously lower case, or if 3 not subscript	1	
		accept nitrogen hydride or hydrogen nitride		
		do not accept hydrogen nitrate or nitrite		
		allow H ₃ N		
				[6]
4.	• correct reactants (i.e. sodium + water either way round)			
	• correct products (i.e. sodium hydroxide + hydrogen, either way round)			
	• arrow → / =			
		[do not allow produce/makes or similar]		
		[do not allow symbols or formulae] each for 1 mark		
				[3]
5.	correct use of 'react'/reaction/reactants/combine (not mixed/added/join)		3	
	correct use of 'produce'/products/gives/forms/makes/creates reactants			
	correctly identified			
		each for 1 mark		
	products correctly identified		1	

May 13 C1 Mark Scheme

A Gutmann



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