

Question 8

8(b)	(acidify and) add barium nitrate (1) white precipitate (1)	2
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Question 9

9(a)	potassium (1) phosphorus (1)	2
9(b)	calcium chloride (1) water (1)	2
9(c)	(add dilute nitric acid and) silver nitrate (1) white precipitate (1)	2
9(d)(i)	vehicle engines / high temperature furnaces / lightning	1
9(d)(ii)	breathing difficulties / asthma	1

Question 10

10(a)	metallic	1
10(b)(i)	lighted splint and (squeaky) pop	1
10(b)(ii)	14	1
10(b)(iii)	universal indicator	1
10(b)(iv)	$2\text{Na(s)} + 2\text{H}_2\text{O(l)} \rightarrow 2\text{NaOH(aq)} + \text{H}_2\text{(g)}$ M1 NaOH as product in equation (1) M2 fully correct equation (1) M3 state symbols (1)	3

Question 11

11(f)	ammonia	1
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Question 12

12(a)	test: relights AND observations: a glowing splint	1
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Question 13

13(f)	cobalt	1
13(g)	chlorine	1
13(h)	copper	1

