Unit 9: Inorganic chemistry

Subunit 9.2: Periodicity of chemical properties of the elements in Period 3

13	Wh	nich oxide	is insolub	le in aqueo	us sodium	ı hydroxide?	>	
	Δ	MaO	В	$A1_2O_2$	С	P ₄ O ₄₀	D	SO

Topical Question No: 2

Topical Question No: 1

- **14** X, Y and Z are three elements in the third period.
 - X reacts with chlorine to give a liquid product.
 - Y reacts with chlorine to give a solid product that dissolves in water to give a solution of pH 7.
 - Z reacts with chlorine to give a solid product that dissolves in water to give a solution of pH 6.

Which elements are good conductors of electricity?

A X and Y B Y and Z C Y only D Z only	Α	X and Y	В	Y and Z	С	Y only	D	Z only
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Topical Question No: 3

13 X and Y are oxides of different Period 3 elements.

If one mole of Y is added to water, the solution formed is neutralised by exactly one mole of X.

What could be the identities of X and Y?

	X	Y
Α	Al_2O_3	P ₄ O ₁₀
В	Al_2O_3	SO₃
С	Na₂O	P ₄ O ₁₀
D	Na₂O	SO₃

Answer Key

- 1. Error
- 2. Error
- 3. Error