

ACTIVITY 1

Which specification point is the following question assessing?

- (ii) Explain how the electrical conductivity, high melting temperature and malleability of metals depend on their structure and bonding.

(3)

Electrical conductivity

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High melting temperature

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Malleability

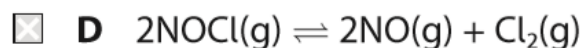
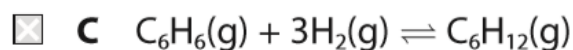
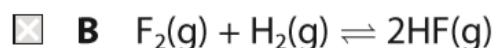
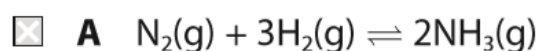
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ACTIVITY 2

Devise a multiple choice question to assess the specification statement 9.10

Which equilibrium shifts to the right-hand side when the pressure in the system **decreases** at constant temperature?



ACTIVITY 3

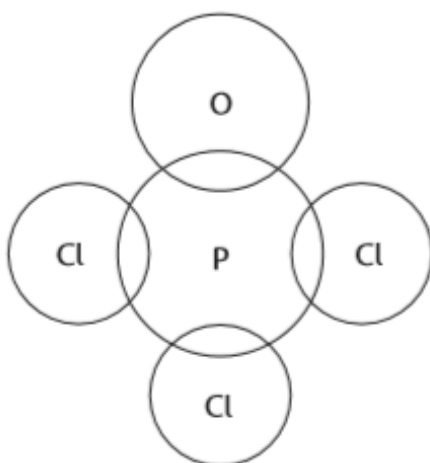
What are the essential points to include when answering the following two questions?

(c) The compound POCl_3 has a simple molecular structure.

(i) Complete the dot-and-cross diagram for the POCl_3 molecule.

Use crosses (x) for the phosphorus electrons, dots (•) for the chlorine electrons and circles (o) for the oxygen electrons.

(2)



(ii) Explain the shape of this molecule using the electron-pair repulsion theory.

(3)

ACTIVITY 4

What is the answer to the following question?

(ii) Explain why iodine is very soluble in cyclohexane but only slightly soluble in water.

(2)