

## AP WORKSHEET 03ABC: Chemical Bonding II Summary

### Intermolecular Forces

1. What do you understand by the term “dipole”? (2)

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2. Describe hydrogen bonding. (2)

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3. State and explain the variation in one physical property that varies according to the amount of hydrogen bonding present. (1)

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4. Under what circumstances could a temporary dipole be induced in a molecule? (2)

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### Solids

5. In terms of its structure explain diamonds hardness. (2)

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6. In terms of its structure explain the fact that solid iodine will sublime. (2)

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7. When will ionic compounds conduct electricity? Explain. (2)

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8. What makes metals good conductors of electricity? Explain. (2)

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### Liquids & Gases

9. A liquid has a high vapor pressure. Explain what this suggests about its boiling point and the inter-molecular forces present. (2)

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10. Explain the pattern of boiling points observed below, amongst the group 16 hydrides. (2)

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Group VI Hydride	H <sub>2</sub> O	H <sub>2</sub> S	H <sub>2</sub> Se	H <sub>2</sub> Te
Boiling Point / °C	100	-65	-45	-15