# Spacing grid example

***Education in Chemistry***September 2019  
rsc.li/2NqeJTm

Use a spacing grid like this to give pupils retrieval cues.

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| Draw the bonding in sodium chloride (NaCl) and water (H2O). |
| Explain how sodium chloride has a high melting and boiling point, but water has a low melting and boiling point. |
| What other properties do ionic compounds have? |

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| Using this model of closely packed positive metal ions and a sea of delocalised electrons, explain why **metals:**   * Have high melting and boiling points: * Are good conductors of heat and electricity: * Are malleable and ductile: |

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| Allotropes of carbon – name each one. What can you remember?  How are the above allotropes (other than diamond) able to conduct electricity? |