<table>
<thead>
<tr>
<th>Topic</th>
<th>Melting simple and giant covalent substances</th>
<th>Level</th>
<th>GCSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ouctomes</td>
<td>1. To show what happens to the bonds/molecules when you heat simple and giant covalent substances</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Using the interactive white board students must drag apart the bonds/molecules to show what happens when you heat giant and simple covalent substances.*

[www.thescienceteacher.co.uk](http://www.thescienceteacher.co.uk) | resources for science teachers who like to think
Melt diamond – show what happens to the bonding and structure when you heat diamond.
This is what it could look like.
Melt methane - show what happens to the bonding and structure when you heat methane.
This is what it could look like

\[
\begin{align*}
\text{H} & \quad \text{C} & \quad \text{H} \\
\text{H} & \quad \text{C} & \quad \text{H} \\
\text{H} & \quad \text{C} & \quad \text{H} \\
\text{H} & \quad \text{C} & \quad \text{H}
\end{align*}
\]
Melt graphite- show what happens to the bonding and structure when you heat graphite
This is what it could look like.
Melt hydrogen iodide - show what happens to the bonding and structure when you heat HI.
This is what it could look like.
Master Diagrams

Use these diagrams once the originals have been dragged apart.
Melt hydrogen iodide - show what happens to the bonding and structure when you heat HI.
Melt graphite- show what happens to the bonding and structure when you heat graphite