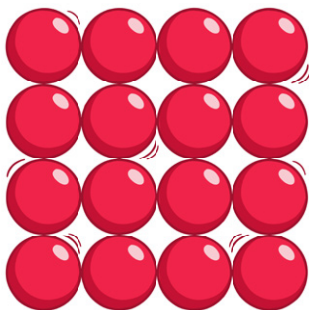

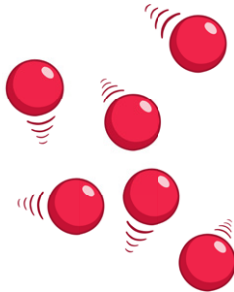
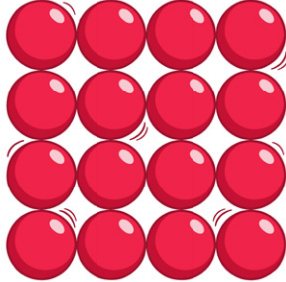

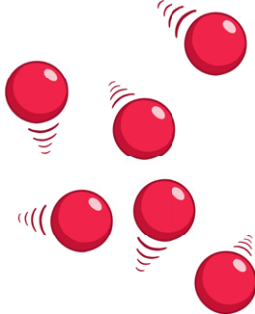


# Properties of Solids, Liquids and Gases **Cut and Stick Activity Answer Sheet**

State of matter	Particle arrangement	Diagram	Main properties
<b>Solid</b>	<p>Particles are uniformly arranged in a tightly packed lattice. Particles can vibrate but do not have much energy to move about.</p>		<ul style="list-style-type: none"> <li>• Cannot be compressed</li> <li>• Retains a fixed shape</li> </ul>
<b>Liquid</b>	<p>Particles are randomly arranged and touching. Individual particles can move and slide past one another.</p>		<ul style="list-style-type: none"> <li>• Cannot be compressed</li> <li>• Fills the shape of the bottom of a container</li> </ul>
<b>Gas</b>	<p>The particles have a lot of energy and move freely to fill all the available space.</p>		<ul style="list-style-type: none"> <li>• Can be compressed</li> <li>• Fills entirely any enclosed container</li> </ul>

State of matter	Particle arrangement	Particle movement	Particle energy	Diagram	Main properties
Solid	Particles are uniformly arranged in a tightly packed lattice.	Vibrate from a fixed position only.	Low		<ul style="list-style-type: none"> <li>• Cannot be compressed</li> <li>• Retains a fixed shape</li> </ul>
Liquid	Particles are in contact with each other but are not fixed in their positions.	Particles move and slide past one another.	Moderate		<ul style="list-style-type: none"> <li>• Cannot be compressed</li> <li>• Fills the shape of the bottom of a container</li> </ul>
Gas	Particles are more widely spread and rarely in contact.	Moving rapidly and freely into any available space.	High		<ul style="list-style-type: none"> <li>• Can be compressed</li> <li>• Fills entirely any enclosed container</li> </ul>