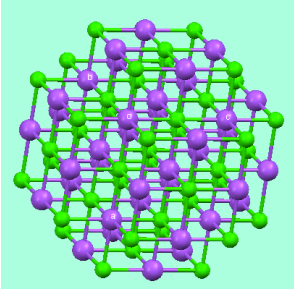
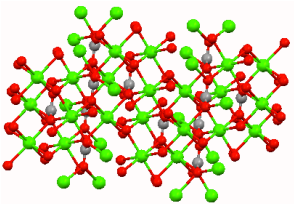
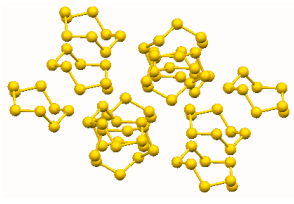
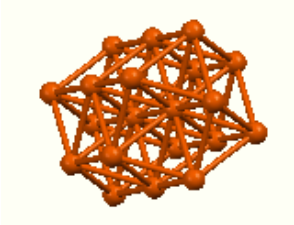
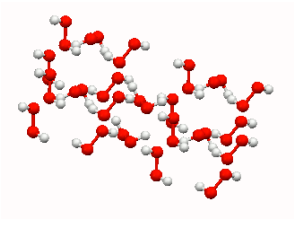
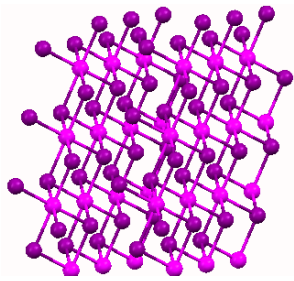
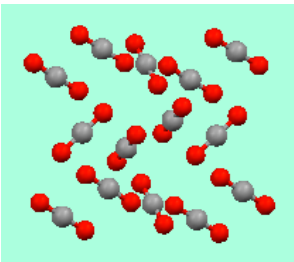
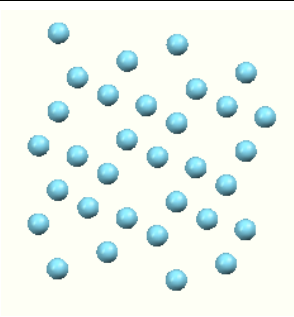


Unit 9 – Exercise 1 - Why Structure is Important

In the table below, identify the type of substance (element, molecular compound, ionic compound).

Substance	Crystal structure	Type	melting pt (°C) boiling pt (°C)
NaCl			801 1413
CaCO ₃			520 decomposes at 825
S ₈			115 444
Cu			1084 2567
H ₂ O ₂			-0.41 150

PbI ₂		402 954
CO ₂		-78 -57
Ar		-189 -186

Use what you know about the connections between particles to account for differences in the melting and boiling points of each of the three types of structures we have observed (elements, molecular and ionic compounds).