

<ul style="list-style-type: none">• Explain what is meant by hybridisation of atomic orbitals.	Marks 1
<ul style="list-style-type: none">• Carbon has atomic number $Z = 6$. What is the ground state electron configuration for an atom of carbon?	5
<p>What compound would you expect to form between a carbon atom with that electron configuration and hydrogen, <i>i.e.</i> what is the value of x in the formula CH_x? Explain.</p>	
<p>What shape would that molecule have? Explain.</p>	
<p>What molecule forms instead? Explain.</p>	