4 • Bonding

4.1 Quick Check - Bonding

Check off each item if you can do the question. Write down a question to ask if you cannot do the question.

☐ Types of Bonds
For each pair of atoms, decide whether the bond formed between them is:

\[ \text{M} = \text{metallic} \quad \text{I} = \text{ionic} \]
\[ \text{NC} = \text{nonpolar covalent} \quad \text{PC} = \text{polar covalent} \]

Then draw a representation of the bond below.

1. C and O  
2. Mg and Mg  
3. H and S  
4. Mg and O  
5. S and O  
6. Fe and S

☐ Lewis Structures
Draw the Lewis dot symbol for each of the following atoms or ions.

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>K</td>
<td>S</td>
<td>O^-</td>
<td>Al^3+</td>
</tr>
</tbody>
</table>

List four ions that have the same number of electrons as Argon, Ar.

Ar

☐ Ionic Compounds
Draw the Lewis Structure representation of the ionic compound K_2O.