

# LW #9 : How can we identify chemical species ?



*the possible compounds are 1,2,3,4,5,6,7,8,9,10*

**The compound is a solid at ambient temperature**

**No**

*The possible compounds are:  
6,7,8,9,10*

**The compound is  
.....**

**yes**

*The possible compounds are:  
1,2,3,4,5*

**The compound is blue**

**No**

*The possible compounds are:  
1,2,3,4*

**The compound is  
.....**

**Yes**

**It is  
copper sulphate**

# Functional groups

Family	<b>Alcohol</b>	<b>Carboxy- lic acid</b>	<b>Ketone or Aldehy- des</b>	<b>Ester</b>	<b>Amine</b>	<b>Amide</b>	<b>Halocar- bons</b>
Formula of the functional group	$\text{— OH}$	$\begin{array}{c} \text{O} \\    \\ \text{— C — OH} \end{array}$	$\begin{array}{c} \text{O} \\    \\ \text{— C —} \end{array}$	$\begin{array}{c} \text{O} \\    \\ \text{— C — O —} \end{array}$	$\begin{array}{c}   \\ \text{— N —} \end{array}$	$\begin{array}{c} \text{O} \\    \\ \text{— C — N —} \\   \end{array}$	$\text{— I}$ $\text{— Cl}$ $\text{— Br}$ $\text{— F}$