## Isomers of C7H16

## **Organic Families**

Organic families are classed according to functional groups. Functional groups are areas on a molecule that are reactive.

Hydrocarbons with general formula  $C_nH_{2n+2}$  contain all single bonds and are called **alkanes**.

Ex.

Hydrocarbons with general formula  $C_nH_{2n}$  contain one double bond (alkenes) or are cyclic (cycloalkanes).



Hydrocarbons with a general formula  $C_nH_{2n-2}$  have a triple bond (alkynes) or are cyclic with a double bond (cycloalkenes).

Match each of the following descriptions with the correct chemical formula.

 $C_{30}H_{52}$  closed ring, two triple bonds

C<sub>12</sub>H<sub>26</sub> C<sub>142n+2</sub> all single bonds (alkane)

C<sub>10</sub>H<sub>20</sub> CnH<sub>2n</sub> cycloalkane

CnH2n-4
C9H14 triple bond and double bond

C<sub>8</sub>H<sub>14</sub> two double bonds

## Isomers of C<sub>6</sub>H<sub>12</sub>

CoH12 - On H2n - one double band Cycloalkane