## **Determining AH° from Bond Energies**

A chemical reaction can be viewed as a series of bonds breaking and reforming. Energy is absorbed when bonds are broken and released when bonds are formed:

$$\Delta H = \Sigma H_{bonds\ broken} - \Sigma H_{bonds\ formed}$$

e.g. 1 Calculate the heat of reaction for the following:

$$H_2(g)$$
 +  $Cl_2(g)$   $\rightarrow$  2HCI(g)

e.g. 2 What is the heat of combustion for the complete combustion of ethane (C<sub>2</sub>H<sub>6</sub>)?

<sup>\*\*</sup>Practice Questions are found on the Calorimetry and Bond Energies Worksheet.