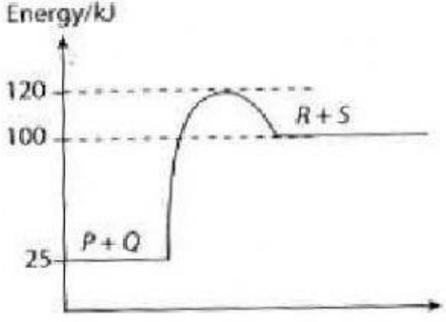
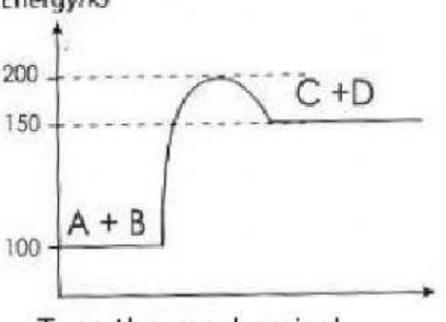
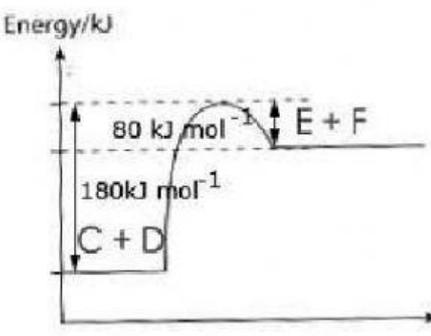
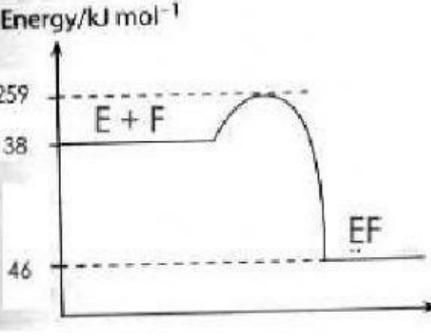


Activity 3 : To interpret the energy level diagram

Explain the information that can be obtained about the absorption and release of energy from the following energy level diagram.

No	Energy level diagram	explanation
1.	 <p data-bbox="316 779 657 1012"> - Type thermochemical reaction is _____ - Heat energy is _____ - Temperature _____ </p>	<p data-bbox="794 465 1353 600"> - Heat energy content in _____ is higher than heat energy in _____ </p> <p data-bbox="794 631 1353 833"> - Heat energy that _____ for formation of bond _____ than heat energy that _____ for breaking bond </p> <p data-bbox="794 869 1200 900"> - $\Delta H =$ _____ kJ mol^{-1} </p>
2.	 <p data-bbox="316 1384 657 1617"> - Type thermochemical reaction is _____ - Heat energy is _____ - Temperature _____ </p>	<p data-bbox="794 1093 1353 1227"> - Heat energy content in _____ is higher than heat energy in _____ </p> <p data-bbox="794 1258 1353 1460"> - Heat energy that _____ for formation of bond _____ than heat energy that _____ for breaking bond </p> <p data-bbox="794 1496 1200 1527"> - $\Delta H =$ _____ kJ mol^{-1} </p>

<p>3.</p>	 <p>Energy/kJ</p> <p>80 kJ mol⁻¹</p> <p>180 kJ mol⁻¹</p> <p>C + D</p> <p>E + F</p> <ul style="list-style-type: none"> - Type thermochemical reaction is _____ - Heat energy is _____ - Temperature _____ 	<ul style="list-style-type: none"> - Heat energy content in _____ is higher than heat energy in _____ - Heat energy that _____ for formation of bond _____ than heat energy that _____ for breaking bond - $\Delta H =$ _____ kJ mol⁻¹
<p>4.</p>	 <p>Energy/kJ mol⁻¹</p> <p>259</p> <p>138</p> <p>46</p> <p>E + F</p> <p>EF</p> <ul style="list-style-type: none"> - Type thermochemical reaction is _____ - Heat energy is _____ - Temperature _____ 	<ul style="list-style-type: none"> - Heat energy content in _____ is higher than heat energy in _____ - Heat energy that _____ for formation of bond _____ than heat energy that _____ for breaking bond - $\Delta H =$ _____ kJ mol⁻¹