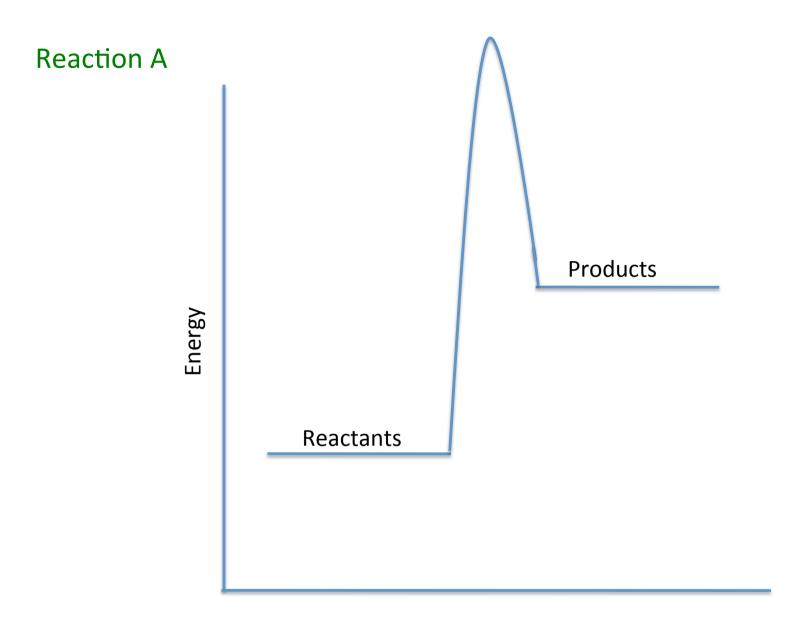
Topic	Activation energy and energy profiles	Level	GCSE (or any other course for students aged 14-16)
Ouctomes	<ol> <li>Students can relate en</li> <li>Students can relate en</li> <li>Students can draw en</li> </ol>	ergy profiles	

*Instructions – students work in pairs to interpret energy profile diagrams* 

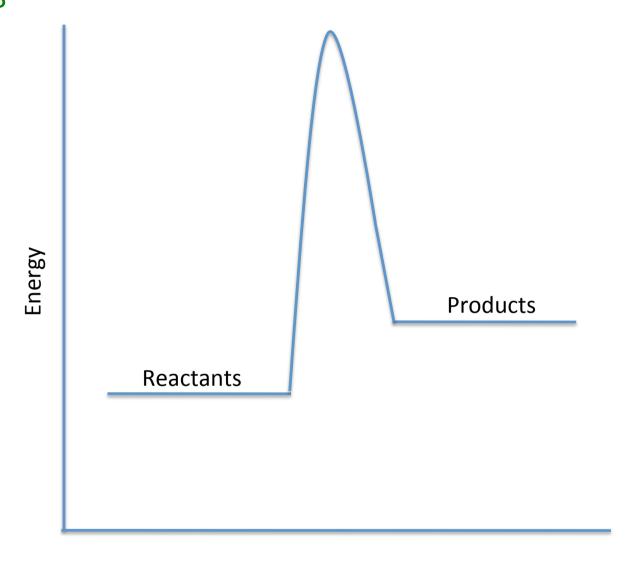
www.thescienceteacher.co.uk | resources for science teachers who like to think

	Put these reactions in order of how quickly you think they would occur. Start the reaction that would occur at the fastest rate.
<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> </ol>	
2.	Put these reactions in order of increasing enthalpy change. Start with the reaction that would release the most heat energy.
<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> </ol>	
3.	If the temperature of the reaction was increased would the energy profile for the reactions change? Explain.
4.	Redraw profile B assuming a catalyst had been added.



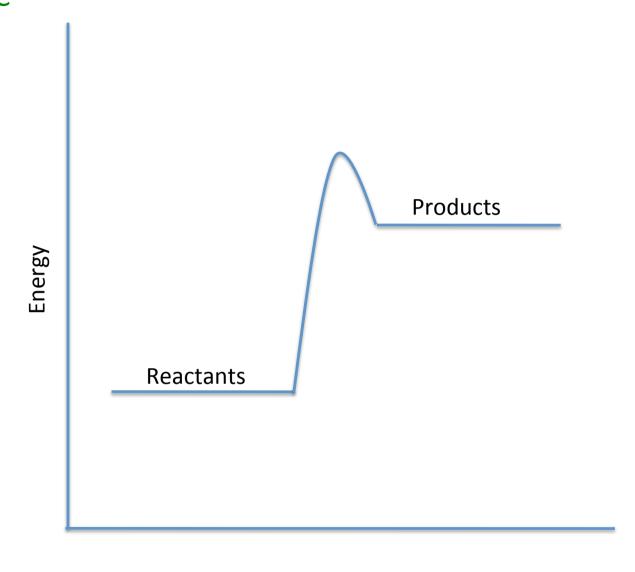
Reaction progress

## Reaction B



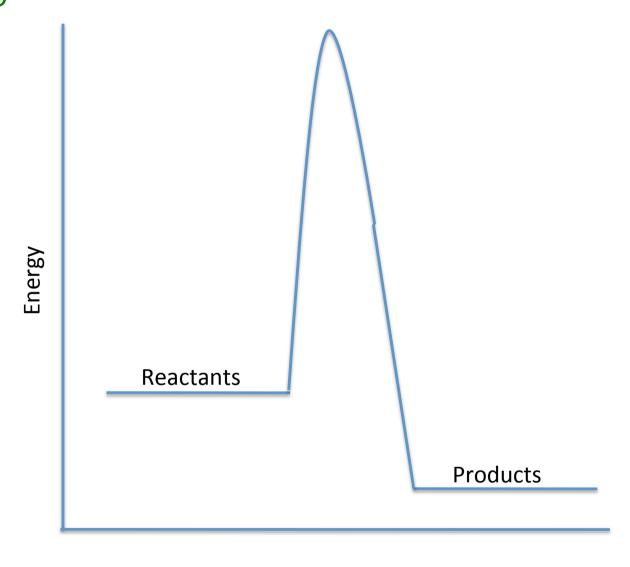
Reaction progress

## Reaction C



Reaction progress

## Reaction D



Reaction progress

