

## ENERGY CHANGES

1. Most reactions are exothermic or endothermic.

a) What is meant by an exothermic reaction?

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b) What is meant by an endothermic reaction?

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c) How would you be able to tell that a reaction was exothermic?

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2. a) Draw an energy level diagram for the exothermic reaction between methane and oxygen.

b) Show the activation energy needed for this reaction on your diagram.

c) Explain what is meant by the term 'activation energy'.

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d) Will  $\Delta H$  for the reaction have a positive or negative value?

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