

# Reactions

## 3. Chemical Energy

### CONCEPT 1

### TEST YOURSELF

#### EXOTHERMIC REACTIONS

##### KNOW

- Q1 Which reaction is the more exothermic – adding calcium oxide to water or the thermite reaction?  
Give a reason for your answer.

##### APPLY

- Q2 Explain using ideas about atoms/particles, why burning magnesium is an exothermic reaction.

##### EXTEND

- Q3 Sketch two separate energy level diagrams to compare the following two reactions.

*Reaction 1*

*A neutralisation reaction in which the temperature difference between the reactants and products is 10°C up or down.*

*Reaction 2*

*The thermite reaction.*