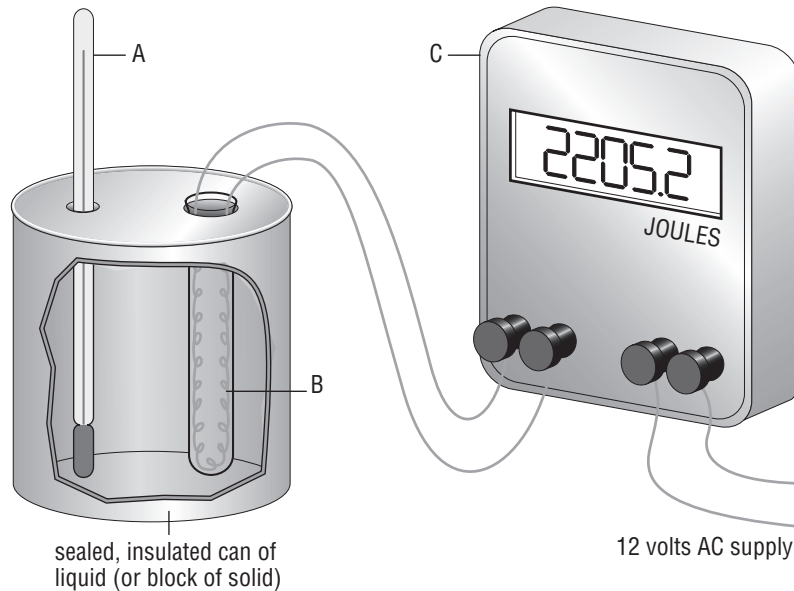
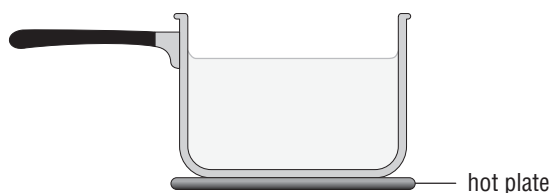


## WORKSHEET 12.2 *End of chapter test*

- 1 What is the 'heat' in a substance really a measure of?
- 2 When a substance is heated what happens to the particles from which it is made?
- 3



- a) Identify the objects labelled A to C in the diagram above.
  - b) For what is the equipment in the diagram used?
  - c) Do the same masses of different substances take up the same amount of thermal energy to make their temperature rise  $10^{\circ}\text{C}$ ?
- 4 How is thermal energy conducted through a substance?
  - 5 How does conduction vary in solids, liquids and gases?
  - 6 Where does conduction not occur?
  - 7 Which kind of materials are the best conductors of heat?
  - 8 How does thermal energy travel through a substance by convection?
  - 9 Draw arrows on the diagram below to show the path taken by thermal energy in the water in the pan due to convection.



- 10 State two places where convection cannot occur.
- 11 What kind of waves transport thermal energy by radiation?
- 12 State two places where the transport of thermal energy by radiation can occur.
- 13 Which type of surface radiates thermal energy most rapidly?
- 14 Which type of surface absorbs thermal energy most slowly?