

Name: \_\_\_\_\_

Class: \_\_\_\_\_

**ACTIVITY SHEET**

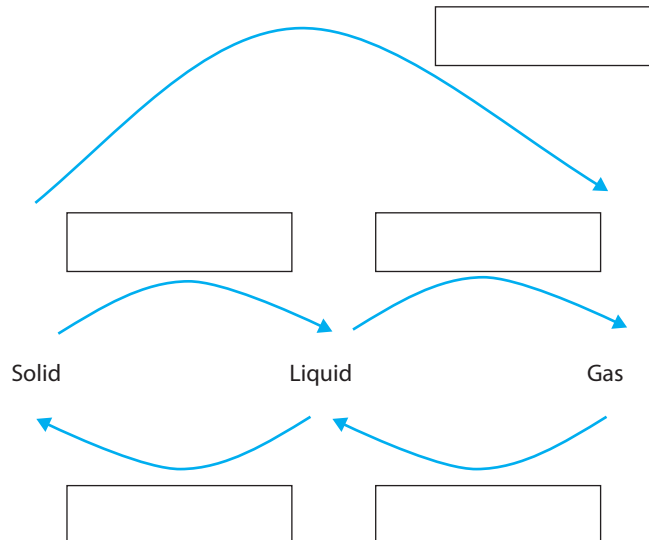
**Activity 1.2**

1 Fill in the missing words in this passage.

Heat is a form of \_\_\_\_\_ due to the of the particles within the substance. Heat will flow from an object with higher \_\_\_\_\_ to one with lower \_\_\_\_\_. Increasing the heat content in a solid may cause it to \_\_\_\_\_ and form a \_\_\_\_\_. This process is called a change of \_\_\_\_\_. The particles in a gaseous substance have greater energy than the same particles when the substance is in a or a state.

The temperature scale used in science is named after Lord \_\_\_\_\_. \_\_\_\_\_ zero is the temperature at which the particles in the substance have energy. This is approximately minus \_\_\_\_\_ degrees Celsius. A difference in temperature of one is the same as the difference in one degree Celsius. Heat can move easily through a \_\_\_\_\_ but less easily through an \_\_\_\_\_. Blankets, woollen coats and hair are good because they trap \_\_\_\_\_ within the material, hindering the flow of heat.

2 Label the processes shown in the figure below.





3 Even on a warm day, you can feel cool when your skin is wet, especially if it is windy. This is the reason why humans sweat in hot weather. Dogs cannot sweat, but they pant with their tongues out in hot weather. Suggest reasons why humans sweat and dogs pant.

4 Metal objects are known to expand when hot and contract when cold. Using diagrams, explain why this occurs by referring to the motion of the particles (atoms) in the metal when hot compared with when they are cold.

5 When building bridges, gaps are left at various places with metal 'teeth' that allow movement. Why would this be done?

