**Homework 3**

**Conduction**

Complete the following sentences:

Heat will always move from a \_\_\_\_\_ place to a \_\_\_\_\_\_ place.

In solid objects like \_\_\_\_\_\_\_\_, heat can travel easily, these materials are called\_\_\_\_\_\_\_\_\_\_\_.

Other materials do not let heat travel through them easily and are called \_\_\_\_\_\_\_\_\_\_, examples of these are \_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_.

Heat travelling through solids is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Heat moves because the particles which are \_\_\_\_\_\_\_\_ in place vibrate more when they are \_\_\_\_\_\_\_\_\_\_, and collide with neighbouring particles making them \_\_\_\_\_\_\_\_\_\_more.

To stop heat moving by **conduction** you just need a \_\_\_\_\_\_\_ or a material that is an \_\_\_\_\_\_\_\_\_\_\_\_\_.

**Convection**

In \_\_\_\_\_\_\_\_ and **gases** (also know as **fluids**) particles are free to move.

When they are heated the hotter particles \_\_\_\_\_\_\_\_ up, forming a \_\_\_\_\_\_\_\_\_\_\_\_ current.

To stop heat moving by **convection** you need to stop the **convection** \_\_\_\_\_\_\_\_\_\_.

**Radiation**

Heat can be **transferred** by \_\_\_\_\_\_\_\_\_\_ .

All hot objects give out Infra-\_\_\_\_\_, even you!

This **radiation** acts in the same way as visible \_\_\_\_\_\_.

It \_\_\_\_\_\_\_\_\_ off light coloured and shiny surfaces but is **absorbed** by \_\_\_\_\_\_ and \_\_\_\_\_\_\_\_ surfaces.

So to stay warm after a marathon race, runners are given a \_\_\_\_\_\_\_\_\_ blanket to **reflect** their heat back onto their bodies.