

## Cooling down

List the factors that affect how fast an object cools.

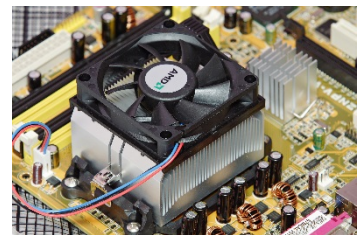
Try and explain the following:

- 1) The sea temperature doesn't change much on a hot day, but the land temperature changes a lot. (Hint: think about specific heat capacity)

- 2) Premature babies are placed in incubators to maintain their temperature. (Hint: think about surface to volume ratio)



- 3) High speed computer chips need cooling fins and fans to blow air over them. (Hint:



think about surface area)



- 4) Car radiators are often painted black. (Hint: think about heat radiation)



- 5) Arctic Foxes have small ears, whereas Desert Foxes have large ears. (Hint: look at your textbook)

- 6) Wind chill is much more extreme if you have just come out of the sea from swimming. (Hint: think of evaporation)



- 7) A hot cup of tea will cool very quickly if the room is cold, but more slowly if the room is warm. (Hint: look at your textbook)