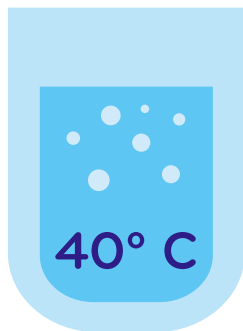


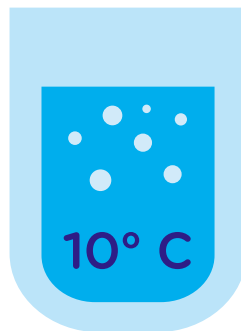
## Water Temperature: Comparing Different Areas

Many people are tempted to go for a swim in reservoirs to cool off on a hot day. This is very dangerous for a number of reasons; the main reason being that the water is very deep and very very cold.

Your challenge is to make up different beakers of water to the following temperatures and notice the difference in temperatures.



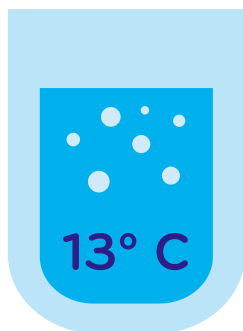
a Bath



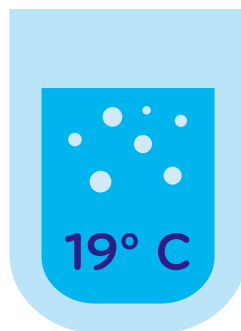
Reservoir



Body Temperature



Cardiff Sea temperature  
(annual average)



Sea off Balearic Islands  
(annual average)



Indoor swimming pool

Measure the temperature using a thermometer. Put your finger/hand in the water WHEN YOU ARE SURE IT'S NOT TOO HOT. What do you notice? Could you guess which one was which?

### Cold Water Challenge

**You will need:** 30 counters of different colours in sets of 5. 2 bowls. Stopwatch. Warm and cold water. Thermometer.

1. Mix up the coloured counters on a flat surface
2. Prepare a bowl of water that is 10°C (reservoir temperature)
3. Put both hands in the bowl for 2 minutes
4. You have 1 minute to put the counters in towers of 5 in matching colours.....GO!
5. Record your results and repeat the process with water that is at 37°C (body temperature)

**What did your findings show? Could you improve on the experiment? How?**