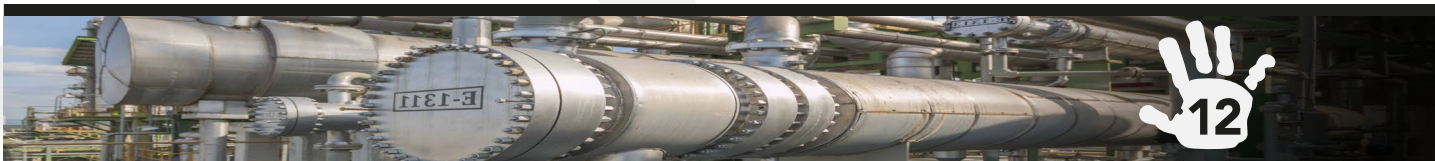


# Activity Sheet 12: That's Cool!



Part of the letter from Scott Oil Refinery

Finally, although this is not at present a problem, we would like you to advise us on the most efficient way to cool out hot liquids.



Plan your cooler here.



A large, empty rectangular box with a red border, intended for students to draw their cooler design.

# Activity Sheet 13: That's Cool!



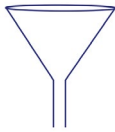
2-litre plastic bottle



5 metres of plastic tubing



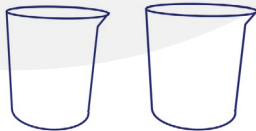
Funnel



2 thermometers



2 jugs (1 litre)



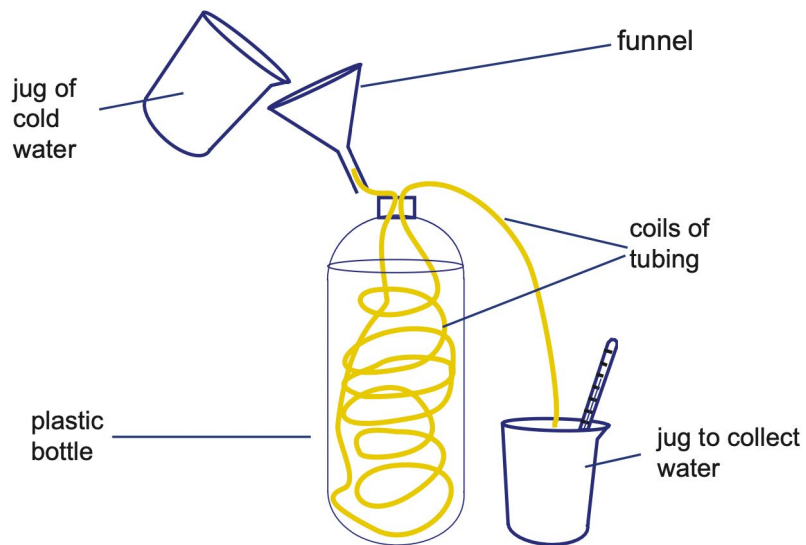
Stopclock



When your test looks like the one below, ask your teacher to pour the hot water in to the bottle.



Be ready to measure time and temperature!



# Activity Sheet 14: Cool It! temperatures



**What will happen to the hot and cold water?  
Why?**

**Hot water**

**Cold water**

Which water?	Temperatures in °C		
	Start	Finish	Difference
Cold water			
Hot water			

Total cooling time \_\_\_\_\_

What do these results tell you? \_\_\_\_\_

How well do your predictions match the results? \_\_\_\_\_