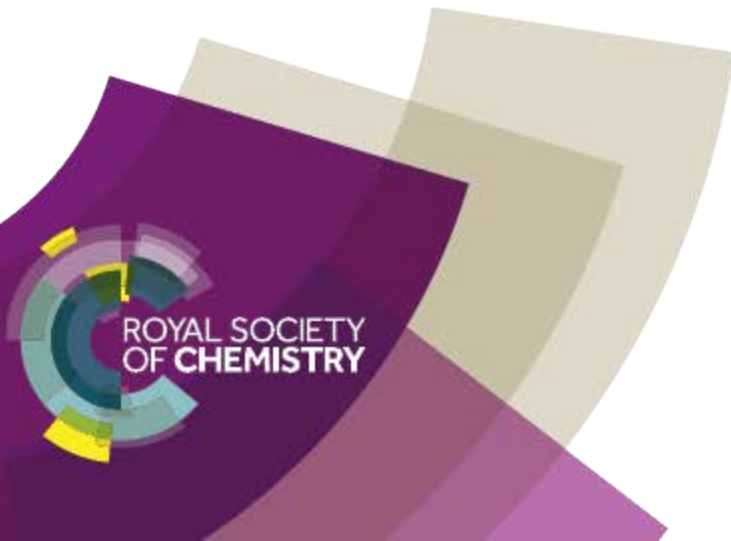
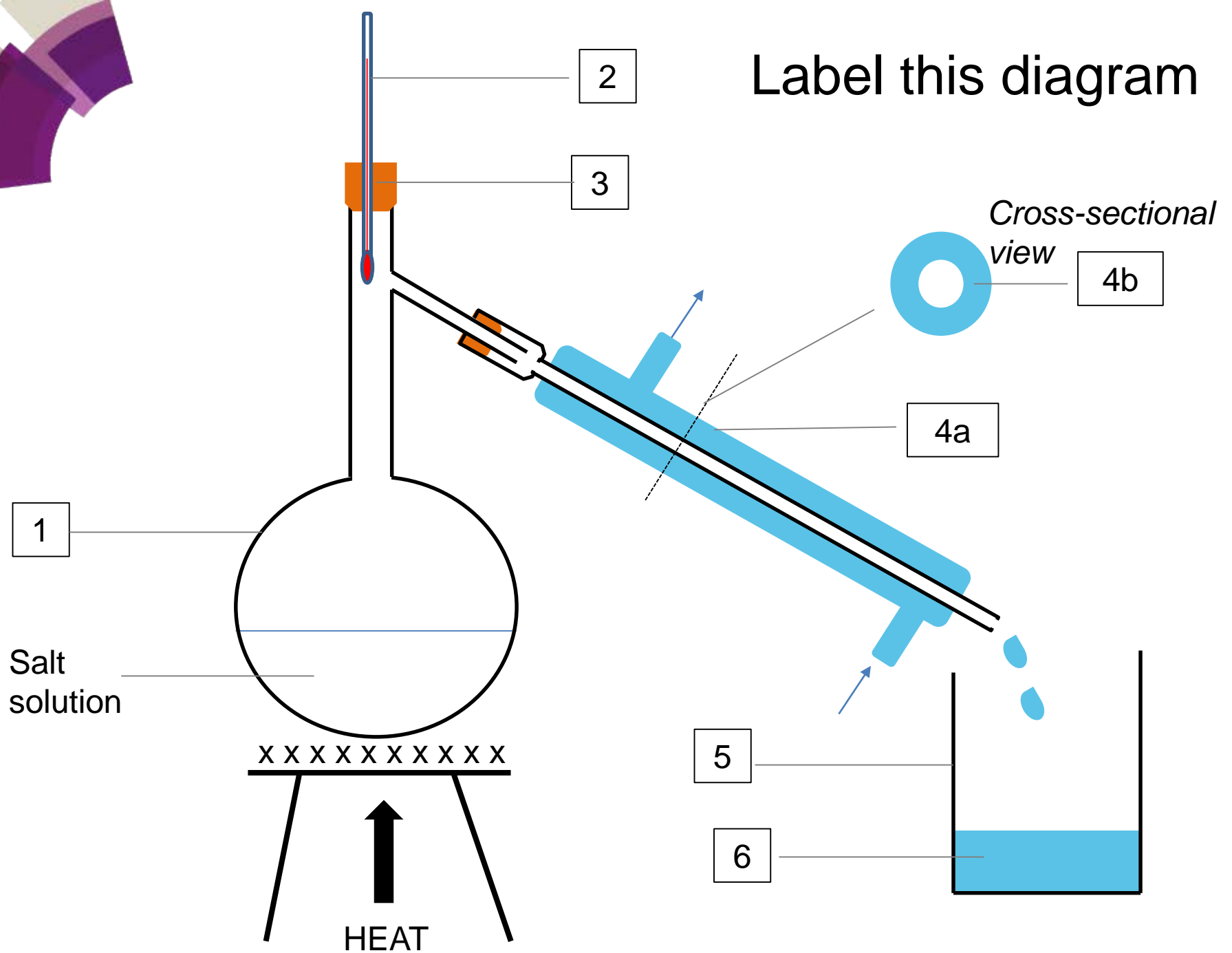


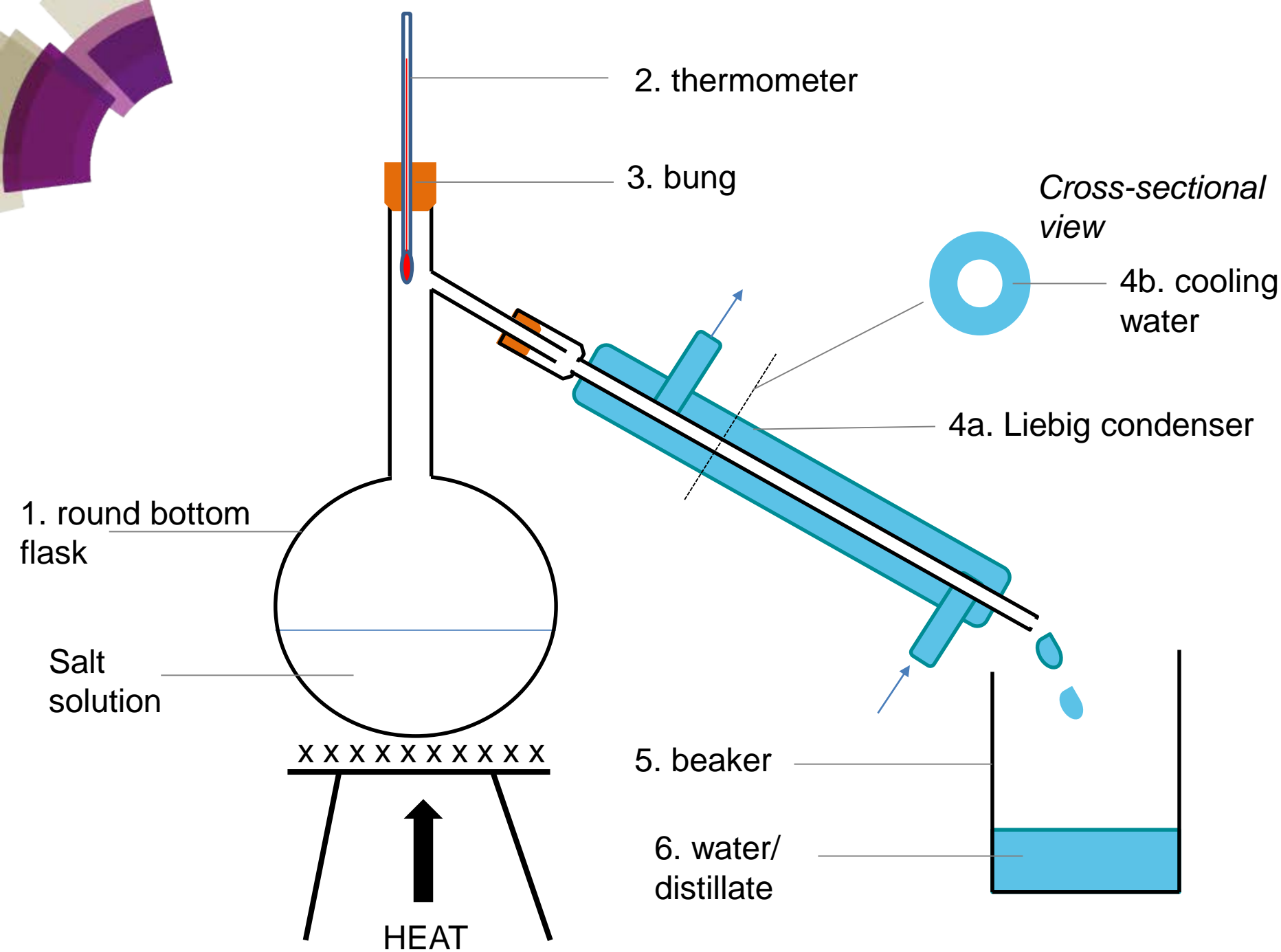


# Particle model

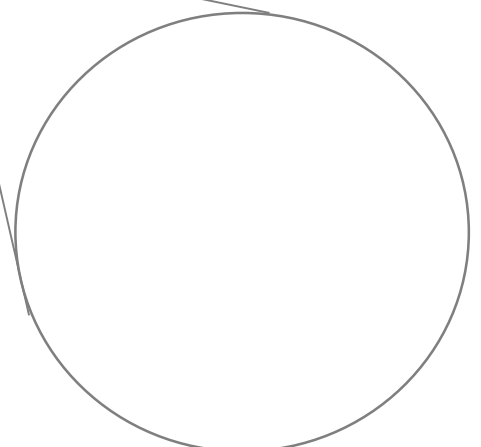
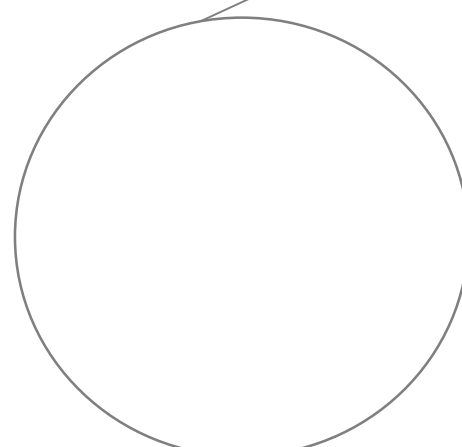
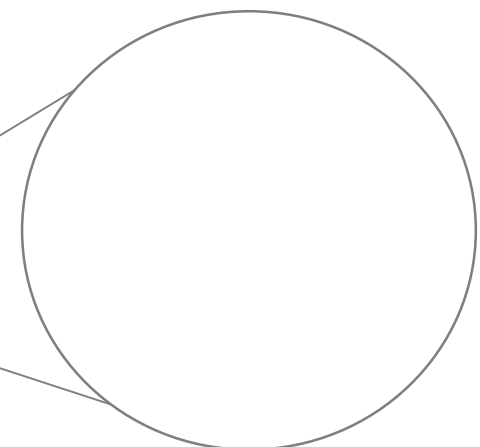
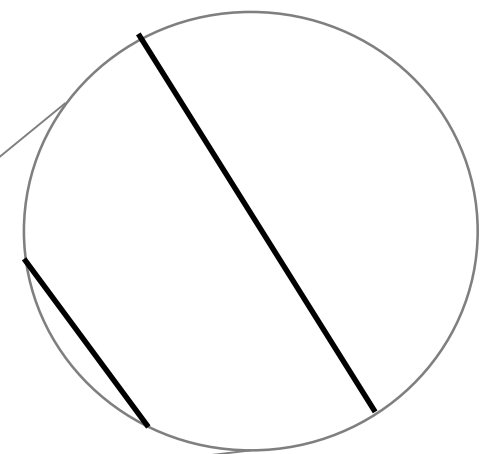
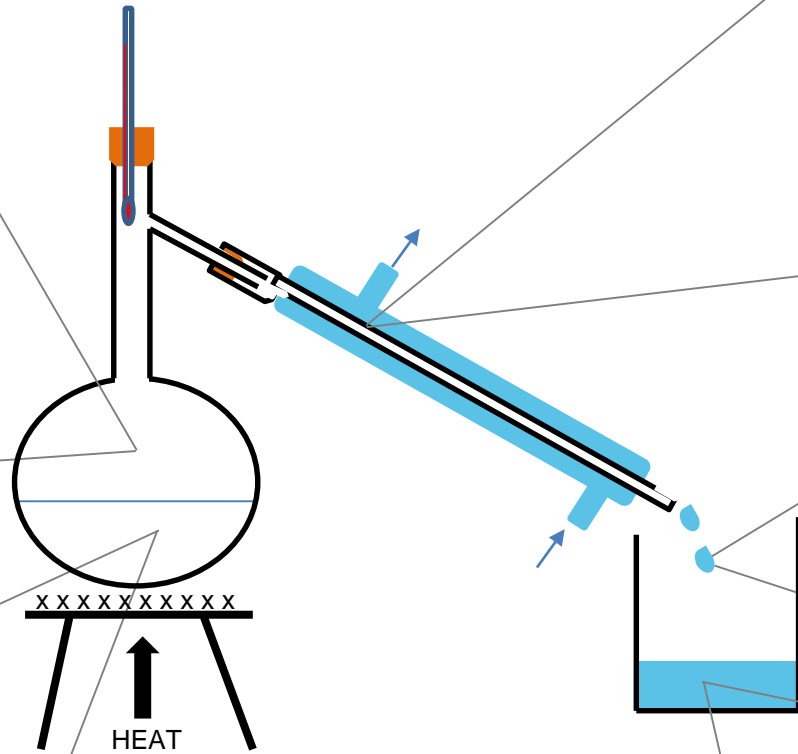
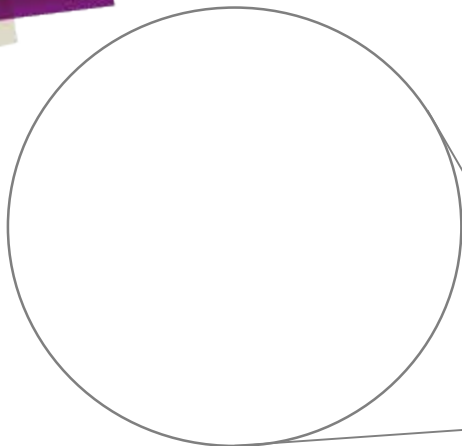


# Label this diagram





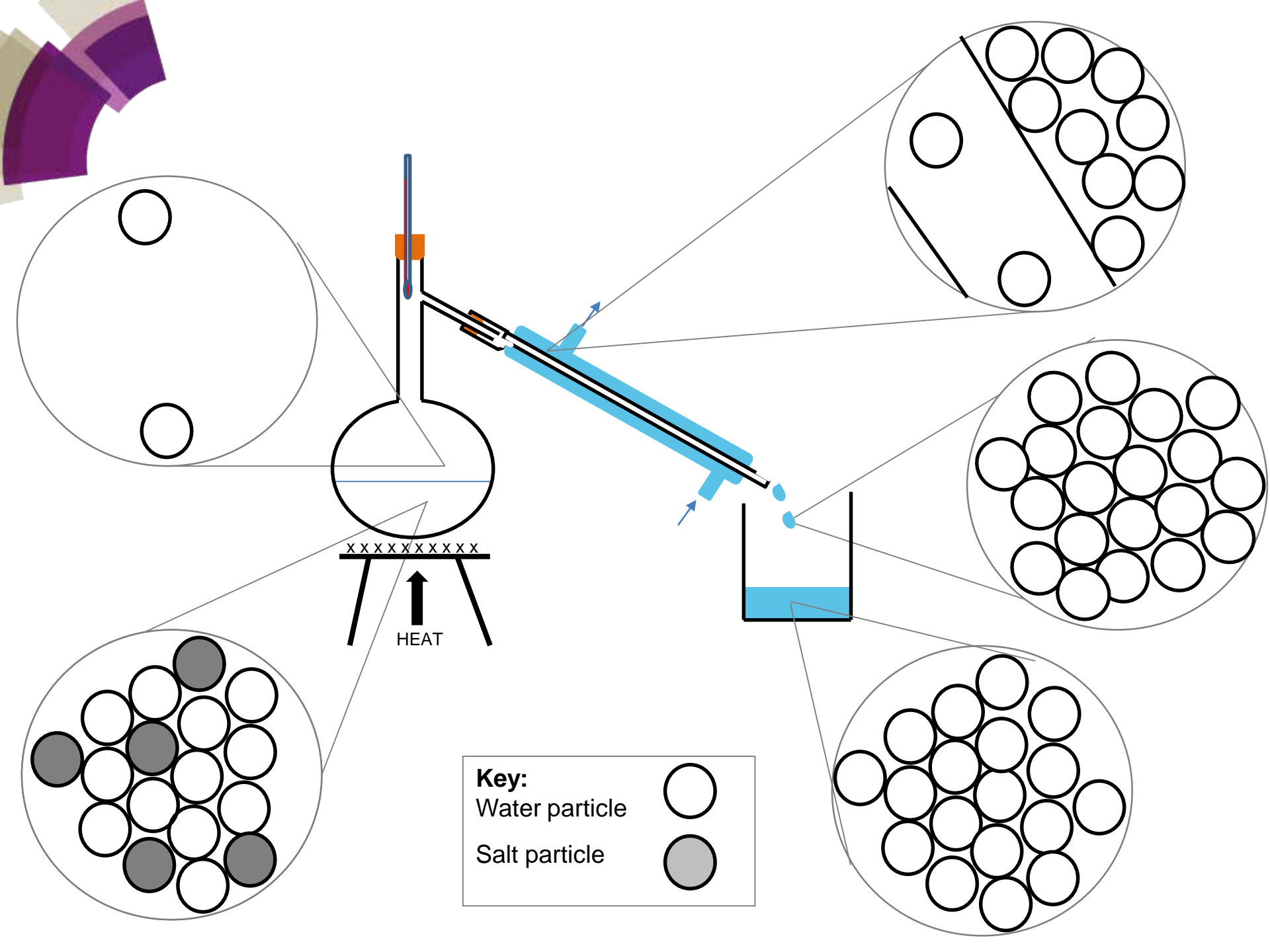


Draw particle diagrams to show what is happening at each stage. You only need to show water and salt particles. Use the key to help.



**Key:**

Water particle	
Salt particle	





# What would happen if:

1. hot water is used instead of cold water in the condenser?
2. the mixture is not heated and stays at room temperature?
3. the cooling water enters the condenser at the top and leaves through the bottom?
4. ethanol (boiling point  $78^{\circ}\text{C}$ ) is also added to the mixture at the start?

If finished, create your own 'what if' questions and write the expected answers.