Name _____ **Class** _____ **Date** _____

Prepare a series of flowcharts with labelled diagrams for use in briefing the government of a developing country, to explain the different ways in which dirty water or sea water can be made safe for drinking.

Make sure that you know information about how water can be cleaned and analysed, for example:

- What is there in dirty water or sea water, apart from water?
- How can solid particles be separated from a liquid?
- How can dissolved solids be separated from a solution?
- How can dissolved solutes in a solution be separated so that they can be analysed?

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Now that you have completed the activity, circle the number of stars next to each of these sentences to describe how well you did.

I have…	
stated the meaning of filtering and sieving.	* * * * *
described what is seen when a solid dissolves.	* * * * *
stated the meaning of soluble, solution, solvent and solute.	* * * * *
described what happens during evaporating and condensing.	* * * * *
described how insoluble solids can be separated from a liquid.	* * * * *
described how soluble solids can be separated from a solution.	* * * * *
described how chromatography can be used to separate mixtures.	* * * * *
stated an example of where distillation is used.	* * * * *
presented information using text, diagrams, charts and graphs.	* * * * *
used standard apparatus symbols correctly in diagrams.	* * * * *
identified hazards and risks in experiments.	* * * * *
classified the different kinds of mixture found in dirty water.	* * * * *
stated the meaning of solubility.	* * * * *
stated what happens when water boils.	* * * * *
described how distillation can be used to separate a mixture.	* * * * *
described how chromatography works.	* * * * *
used my knowledge of dissolving to decide how water can be purified.	* * * * *
produced logical sequences of points in writing.	* * * * *
described how to control risks in experiments I have done.	* * * * *
justified my decision on how to purify water in a particular way.	* * * * *
planned appropriate safety precautions in experiments.	* * * * *

What could you do to improve? _____

_____