Hard and Soft Water 1

1 In some parts of the UK, the water is hard.

Hard water contains dissolved compounds. Complete the following sentences to about hard water.

Choose from the given words.

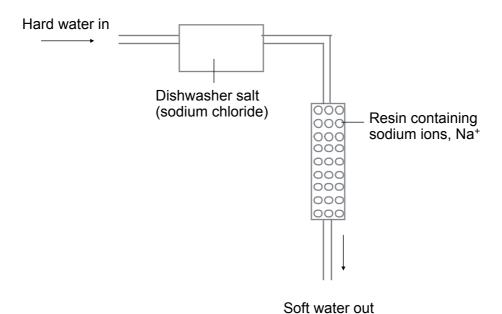
[3 marks]

rocks	chlorine	neutralised	acid	boiled	calcium	
Hard water contains dissolved compounds, usually of or magnesium.						
The compounds are dissolved when water comes into contact with						
Permanent hard water remains hard when it is						

1 (a) Hard water that is supplied to homes can cause damage to appliances that use water.

The damage happens over time and is caused by the build up of scale.

Dishwashers often have ways of making hard water soft. The diagram below shows a system found in a dishwasher.



1 (a) (i) Explain how sodium chloride helps to soften the water in this dishwasher.


[4 marks]

2	Temporary hard water can be made soft by heating.
_	Explain how heating makes temporary hard water soft.
	[4 marks]
	(Total marks 11)
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