All questions are for both separate science and combined science students

Q1.								
-	This	question is about water.						
((a)	Hydrogen gas reacts with oxygen gas to produce water.						
		Water is decomposed int	o hydrogen gas and oxygen gas using electricity.					
		Which two words describe the reaction between hydrogen gas and oxygen gas?						
		Tick (✓) two boxes.						
		Alloying						
		Combustion						
		Corrosion						
		Endothermic						
		Reversible		(2)				
((b)	Water molecules break d	own into hydrogen ions and hydroxide ions.	(2)				
`	()	The equation for the read						
			$H_2O \rightleftharpoons H^+ + OH^-$					
		Which sentence describes this reaction at equilibrium?						
		Tick (✓) one box.						
		Water molecules break down at a higher rate than they reform.						
		Water molecules break	down and reform at the same rate.					
		Water molecules break	down at a lower rate than they reform.	/41				
				(1)				

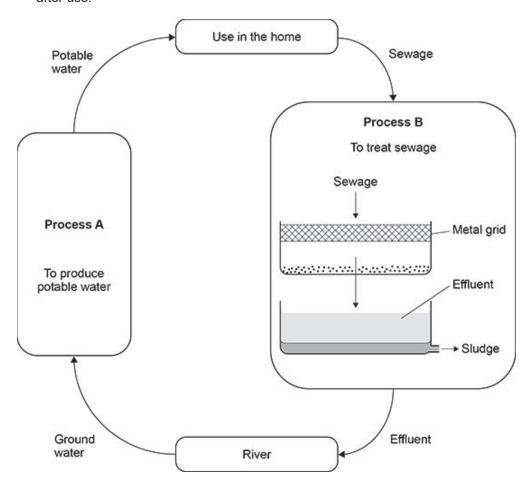
(c) Water collected from rivers is used in the home for drinking and flushing toilets.

Water used in the home must be potable.

Potable water is safe to drink.

Waste water produced after use in the home is called sewage.

The figure below shows how water is collected from rivers and returned to rivers after use.



Explain what happens to water in **Process A** and in **Process B** in above figure.

Do **not** refer to use of water in the home.

 	 		
		(Total

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6.2 Reversible Reactions & Dynamic Equilibrium (F)