

Question 27 (5 marks)

Describe the physical and chemical processes needed to purify and sanitise a town water supply.

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Water in streams isn't perfectly clean, so in order for this water to be used ~~as~~ as a town's supply of water, it must be purified. Firstly, the water is filtered through meshes to remove large solids. Next, Dissolved solids can be removed through the process of sedimentation. This allows for removal of solids too small for the meshes to catch. Next, the chemical process of coagulation catches the smaller amounts of elements by adding chemicals. Life forms such as bacteria are ~~removed~~ killed by adding safe amounts of chlorine into the water. Once all solids, excess elements, & bacteria are removed, the water is safe for use.