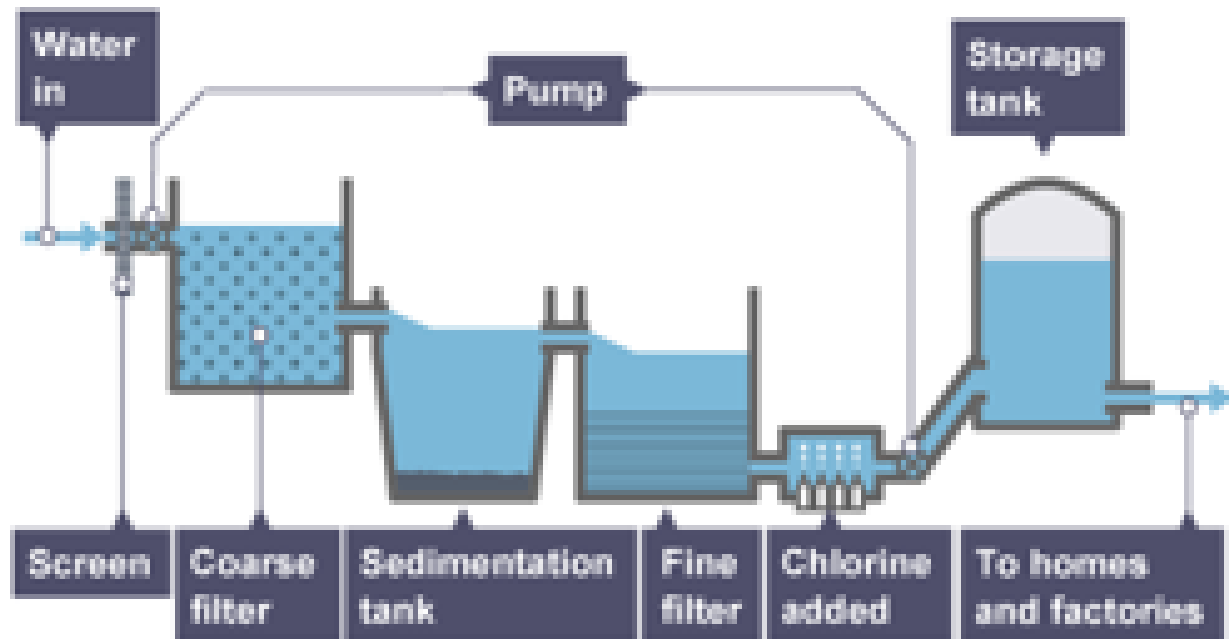


Water Treatment



Life Cycle Assessment

finite or renewable?



Potable Water

- Water of appropriate quality is essential for life. Drinking water should have low levels of dissolved salts and microbes. Water that is safe to drink is called **potable water**.
- Most potable water is made using
 - A suitable fresh water source
 - Passing water through filter beds
 - Sterilising – using chlorine, UV
- If there is not enough fresh water then salty water is used and this process involves **desalination**. The salt is removed by distillation and requires large amounts of energy

Recycling

- Many of the resources are finite – will run out – examples like crude oil and metals
- We must ensure we recycle resources as extracting them requires high energy and damages environment
- Metals can be recasted or reformed into different products
- Some products like bottles can be reused. The process involves crushing and melting.