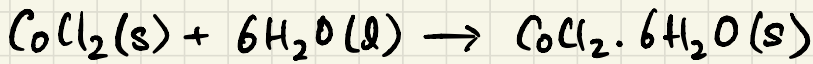


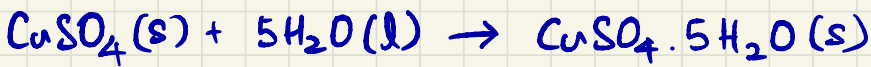
Water : Chemical Tests for Water.

Cobalt (II) chloride turns **BLUE** to **PINK** on addition of water.

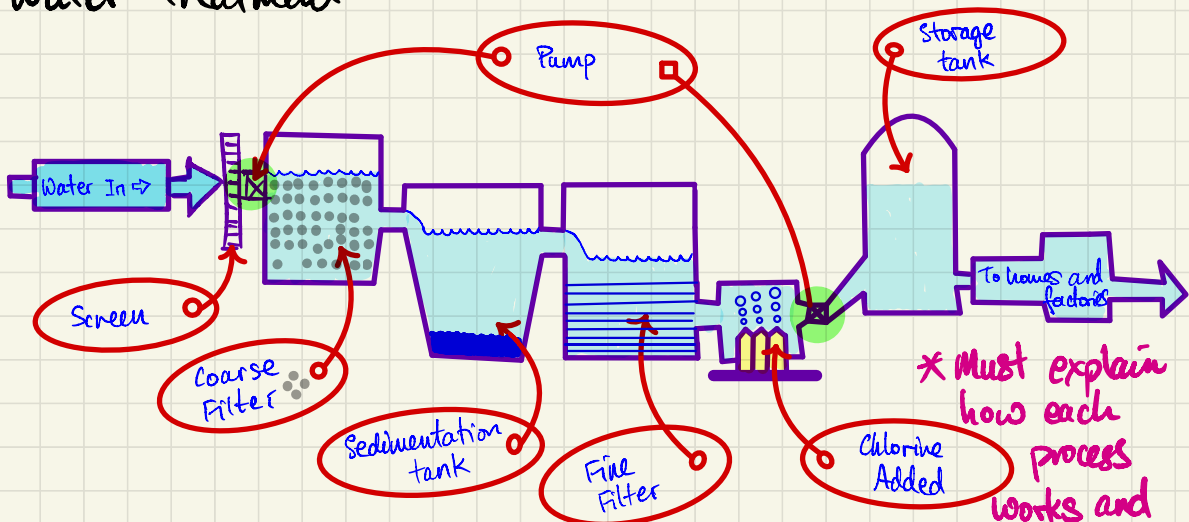
This test is usually done using Cobalt Chloride paper.



Anhydrous copper (II) sulfate turns **white** to **BLUE** on addition of water



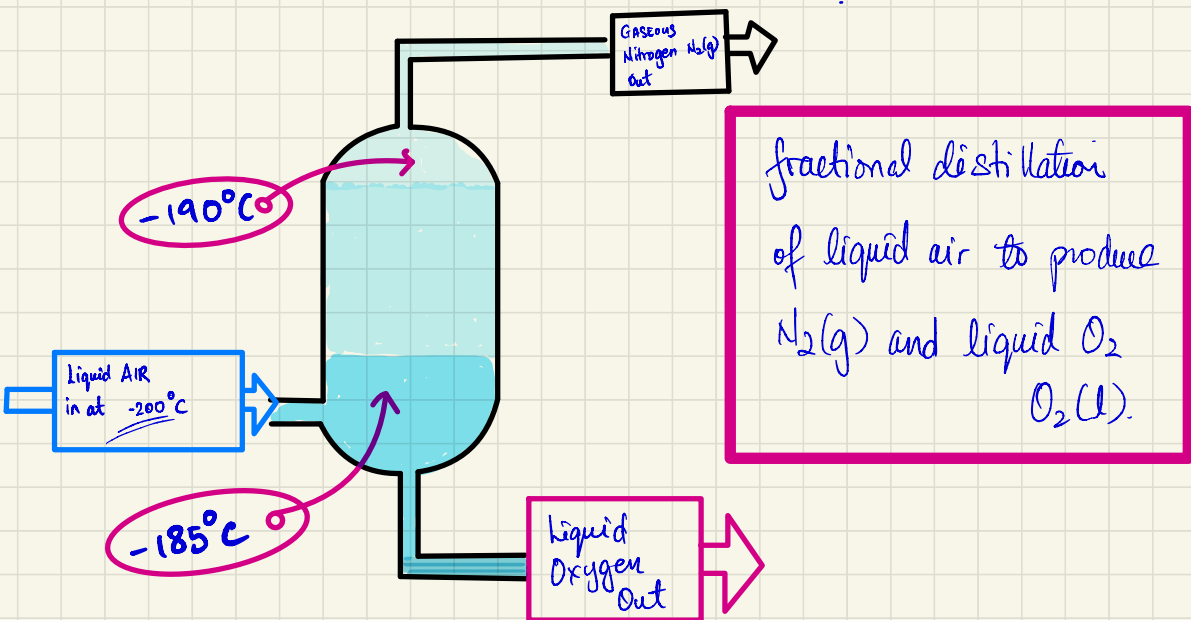
Water treatment



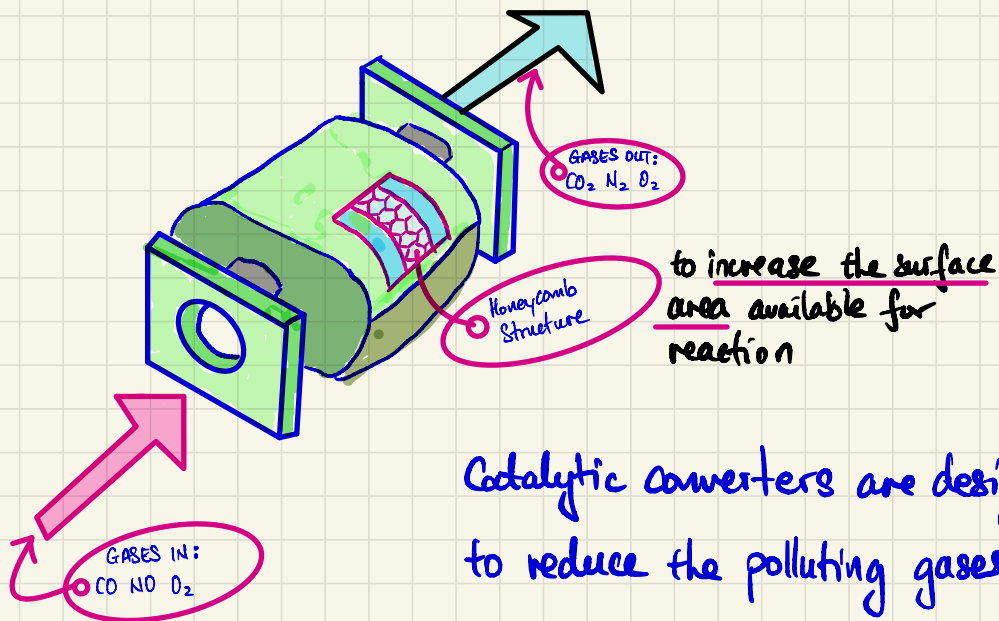
Stages in the treatment of water

* Must explain how each process works and the reason for each one.

Exam questions on water treatment always focus on either filtration or chlorination. (see goggle classroom).



- column is warmer at the bottom than it is at the top.
- Oxygen liquefies at -183°C and Nitrogen liquefies at -196°C .
- Nitrogen has a lower boiling point than oxygen so it vaporises first and is collected as it rises in the gaseous state to the top of the column.
- The liquid O_2 is then removed from the bottom of the column.



Catalytic converters are designed to reduce the polluting gases produced in car exhausts

* They contain a series of transition metal catalysts including platinum and rhodium.

