

# Lego Challenge: Water Filtration

## Your Challenge!

Globally, clean water is not so easily accessible. Ask students to design a water filtration system that cleans out all of the germs and unsafe chemicals from dirty water to make it drinkable!

## Engineering Goals:

- Define the problem that not everyone has access to clean water
- Identify ways to make dirty water safe
- Discuss Existing solutions Brainstorm and prototype LEGO filtration solutions to provide people with clean water

## Reflection Questions

What should I do first?

Is something confusing me?

Could I explain this to someone else?

Where can I look for help?

How can I do it better?



## How Filters Work

Physical filtration provides a physical barrier that removes larger particles from your water. Chemical filtration uses simple chemical reactions on water passing through an activated material (like carbon) to remove smaller impurities that physical filters can't catch