

# SINKS OF CARBON DIOXIDE

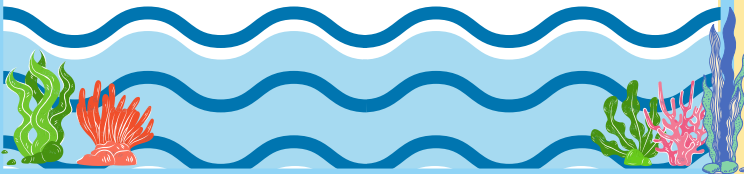
## FORESTS



## SOILS



## OCEANS



Carbon sinks are reservoirs that **capture** and **store** atmospheric carbon dioxide, taking in more than they emit.

## FORESTS

- About **50%** of a tree's chemical composition is carbon
- Fast growing **young forests** take in carbon rapidly



*A sustainably **managed** forest with repeating timber harvests stores **more carbon** over time than land that is unmanaged.*



## SOILS

- Contain more than:
  - **3x** the amount of carbon in the atmosphere
  - **4x** the amount in all living plants & animals
- **Peatland** (wetland organic soils)
  - Store about **25%** of global soil carbon
- **Permafrost** (frozen soils)
  - Store about **50%** of global belowground carbon

## OCEANS

- Absorbed **25%** of the carbon dioxide released since the Industrial Revolution
- **Phytoplankton** (microalgae)
  - Absorb about as much carbon as all plants and trees on land combined