

3.3.1 Bathtub Thought Experiment

Name _____ Per _____ Date _____

Thought Experiment

Imagine you have a 50-gallon bathtub. You want to keep it always exactly halfway full, at 25 gallons. Besides turning off the tap and closing the drain as soon as it gets to 25 gallons and leaving it there --

List at least 2 ways you think of to put water into the bathtub

List at least 2 ways you think of to take water out of the bathtub

Now, imagine your bathtub is staying even at a steady state of 25 gallons. All of a sudden your friend comes over with a hose blasting at full speed.

What happens to your bathtub?

In this example there are **SOURCES** for water (hoses, taps, cups) and there are **SINKS** for water (ways to take water out, also buckets, hoses, drains). **There are also sources and sinks for greenhouse gases.**

Share with your partner and write down at least one source (place a greenhouse gas comes from) and one sink (a way a greenhouse gas can be used up or go away)

SOURCE of Greenhouse Gases	SINK for Greenhouse Gases