



en-danger experiment

FYP PRESENTATION #2 // 20112020

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Concept Update

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Timeline

Objective of Interaction

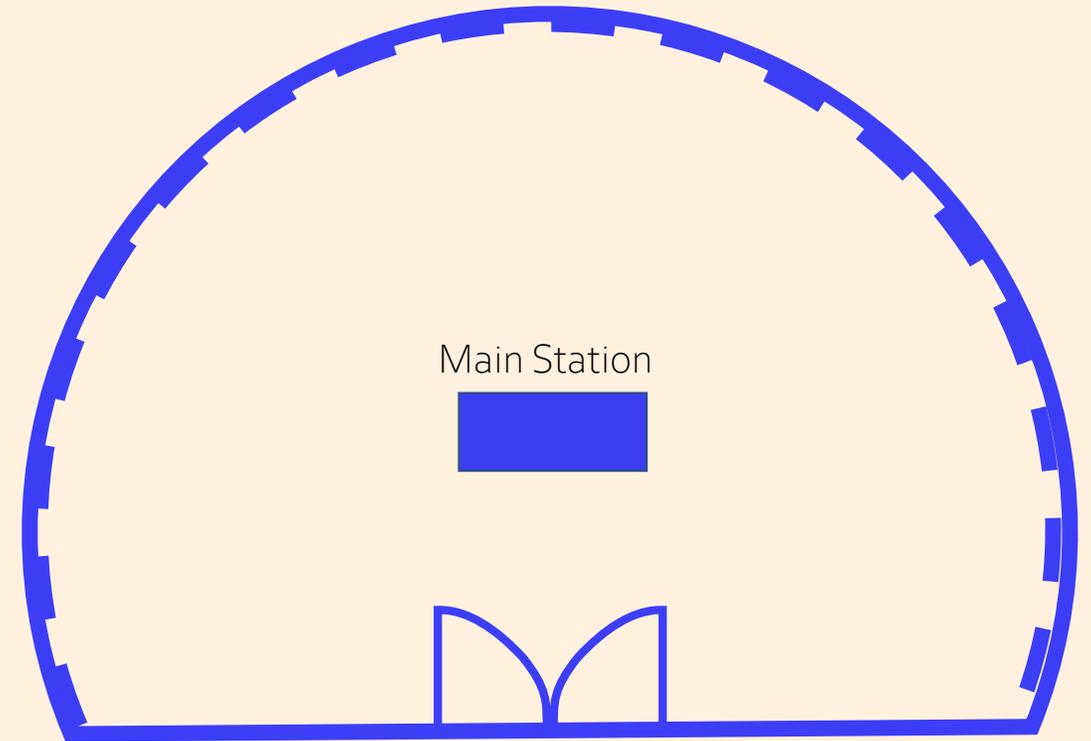
To show the effect of human activities on these animals. Throughout the installation, they will see how their presence impact the animals.

Spatial Design

A 180-degree interactive projection with a main station in the center to control the projection.

Projections

The projections throughout the space will feature animations of the animals in their habitat.



Objective of Interaction

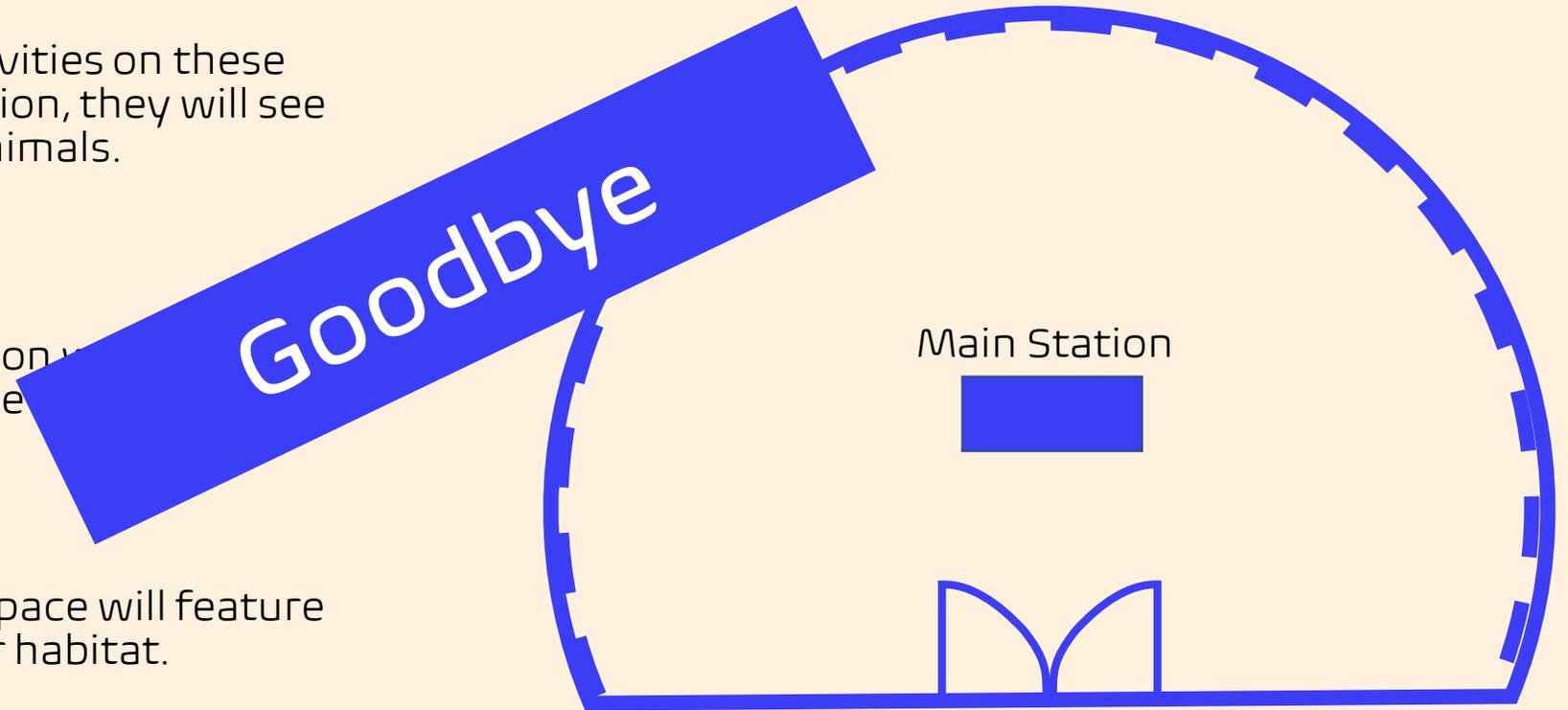
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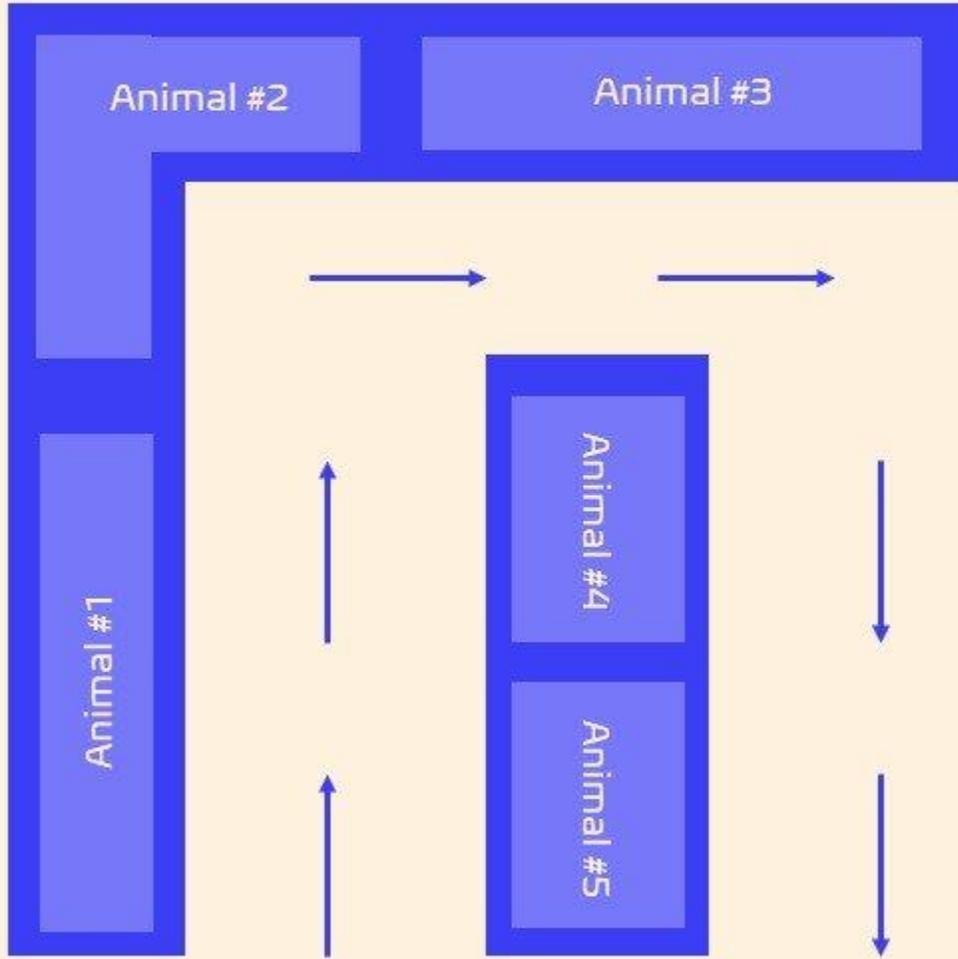
Moved on to a new interaction...



Narrative:

You enter the lab of a mad scientist. As you explore his lab, you notice that he has been working on experiments with endangered animals.

But don't let his madness deceive you. His not-so-evil experiments are designed to protect these animals from human-inflicted causes that led to their endangerment.



You enter the lab of a mad scientist who probably just went out to grab a bite, leaving his lab with his work-in-progress experiments unattended.

Five different stations for each animal.

Steps for a Scientific Investigation

1. Identify a research question or problem.
2. Form a hypothesis
3. Gather evidence, or data, to test the hypothesis
4. Analyze the evidence
5. Decide whether the evidence supports the hypothesis
6. Draw conclusions
7. Communicate the results

Each animal should comprise of these three components

- Introduction to Human-inflicted problem
 - Evidence of problem/hypothesis
 - Proposed hypothesis/solution to the issue
-

Two possible forms of experiences:

- Non-interactive, mainly informational investigations
- Interactive Investigations

Human-inflicted Causes

Singapore Freshwater Crab

Acid rain acidifying their stream habitat

Raffles-banded Langur

Breakage in genetic flow as a result of deforestation

Hawksbill Turtle

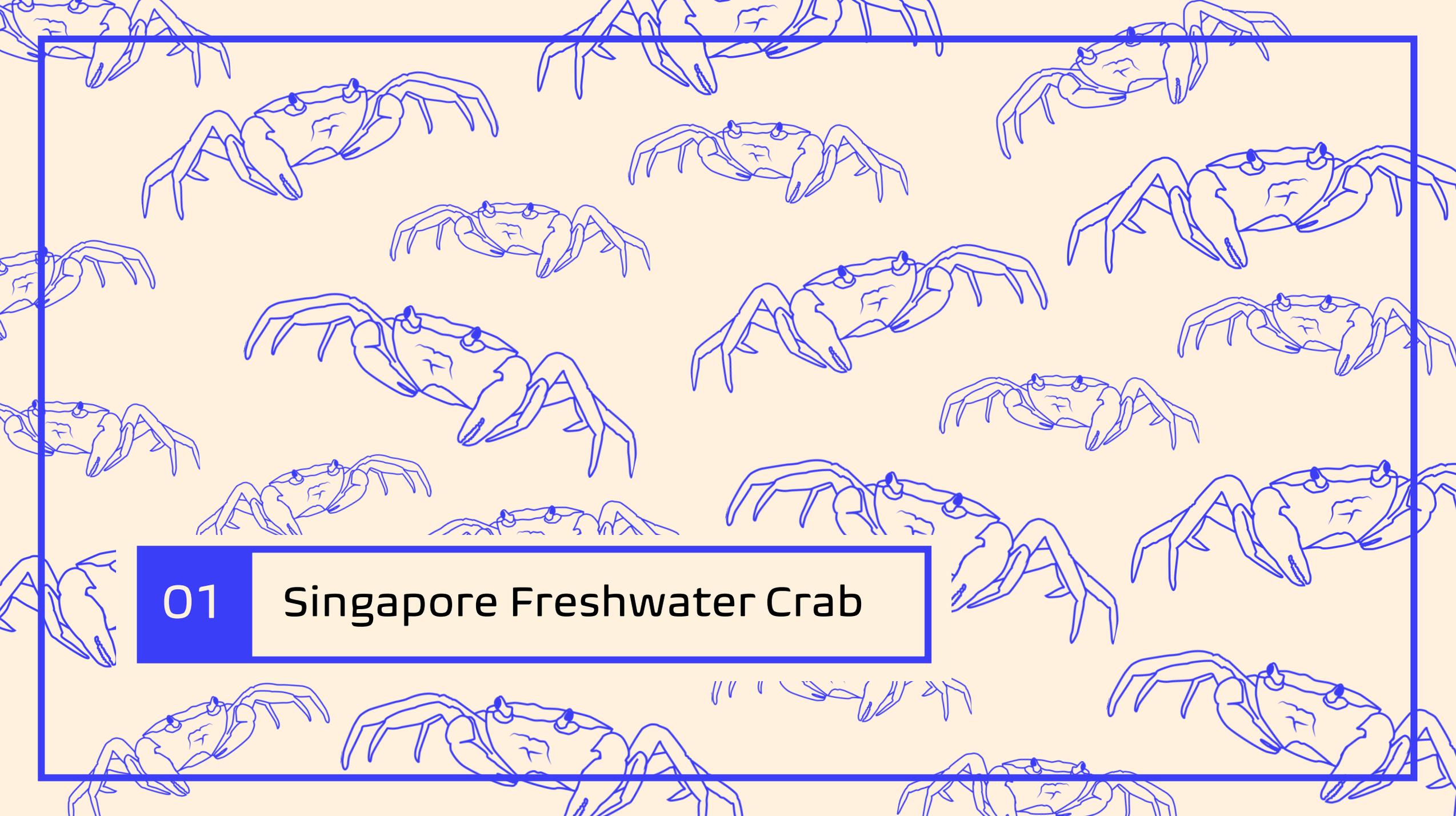
Pollution resulting in the ingestion or entrapment

Sunda Pangolin

Poaching of scales for traditional medicine

Smooth-coated Otter

Pollution of waterways leading to degradation of habitat

The background of the entire page is a repeating pattern of blue line-art illustrations of Singapore Freshwater Crabs. The crabs are shown from various angles, some facing left and some facing right, creating a dense, textured effect. A thick blue border frames the entire content area.

01

Singapore Freshwater Crab

01

Singapore Freshwater Crab

Problem: Acid rain has driven up the acidity levels of the streams resulting in undesirable living condition that makes the streams inhabitable for the Singapore Freshwater Crab.

The Singapore Freshwater Crab requires fast-flowing hilly stream with a pH level of 7.



01

Singapore Freshwater Crab

Working question

Is the rain really acidic, if yes why?

How does the acidity affect the crabs?

Will decreasing the acidity help?

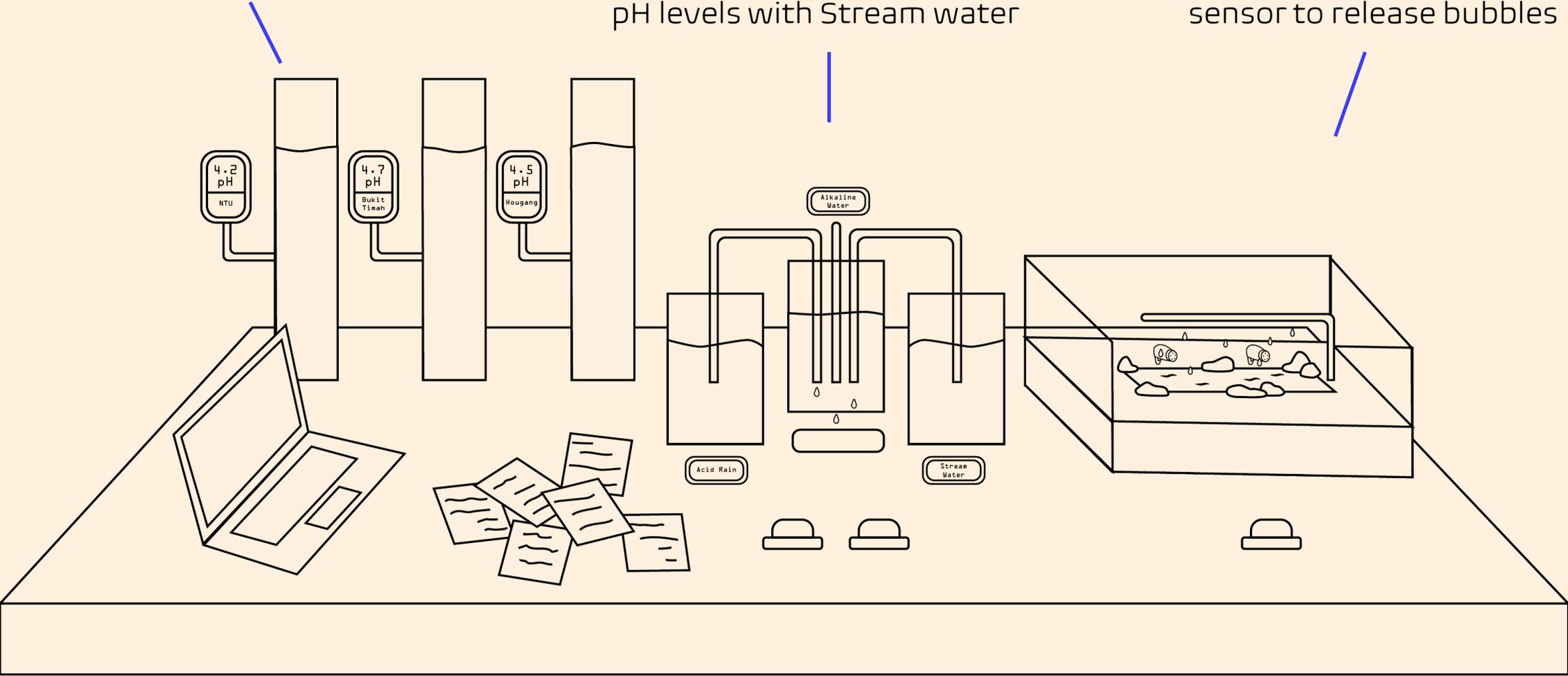
How do you decrease the acidity?

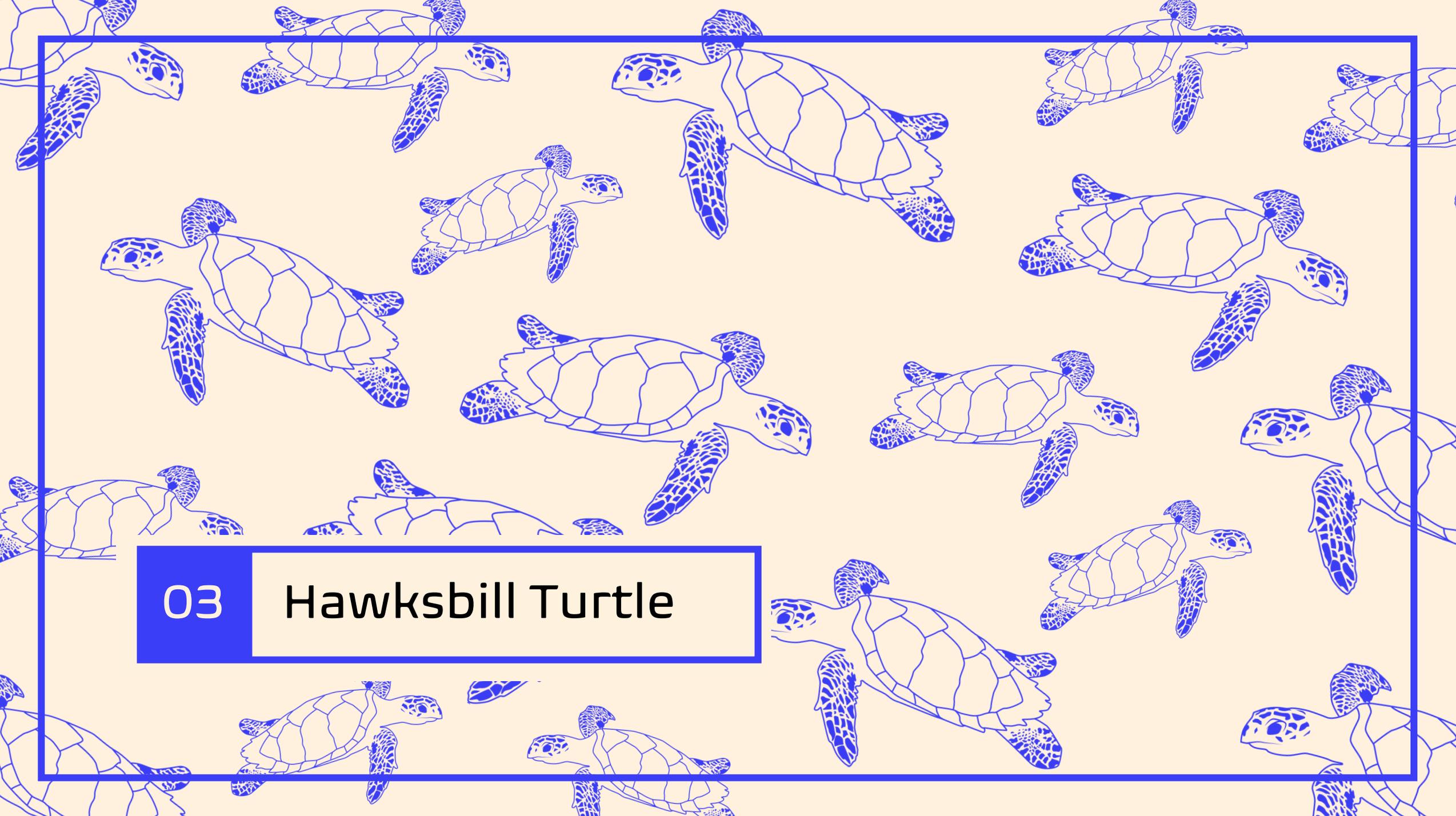


EXP#01 Rainwater in tank with pH level indication

EXP#02 Mixing station to test pH levels with Stream water

EXP#03 Bubblinator, rain sensor to release bubbles





03

Hawksbill Turtle

03

Hawksbill Turtle

Problem: Plastic pollution has deteriorated the living conditions of the ocean resulting in the turtles ingesting or getting trapped in pollution debris.



01

Singapore Freshwater Crab

Working question

Is there plastic in the ocean, if yes, how much?

How does the plastic affect the turtles?

How do we stop more plastics from entering the ocean?

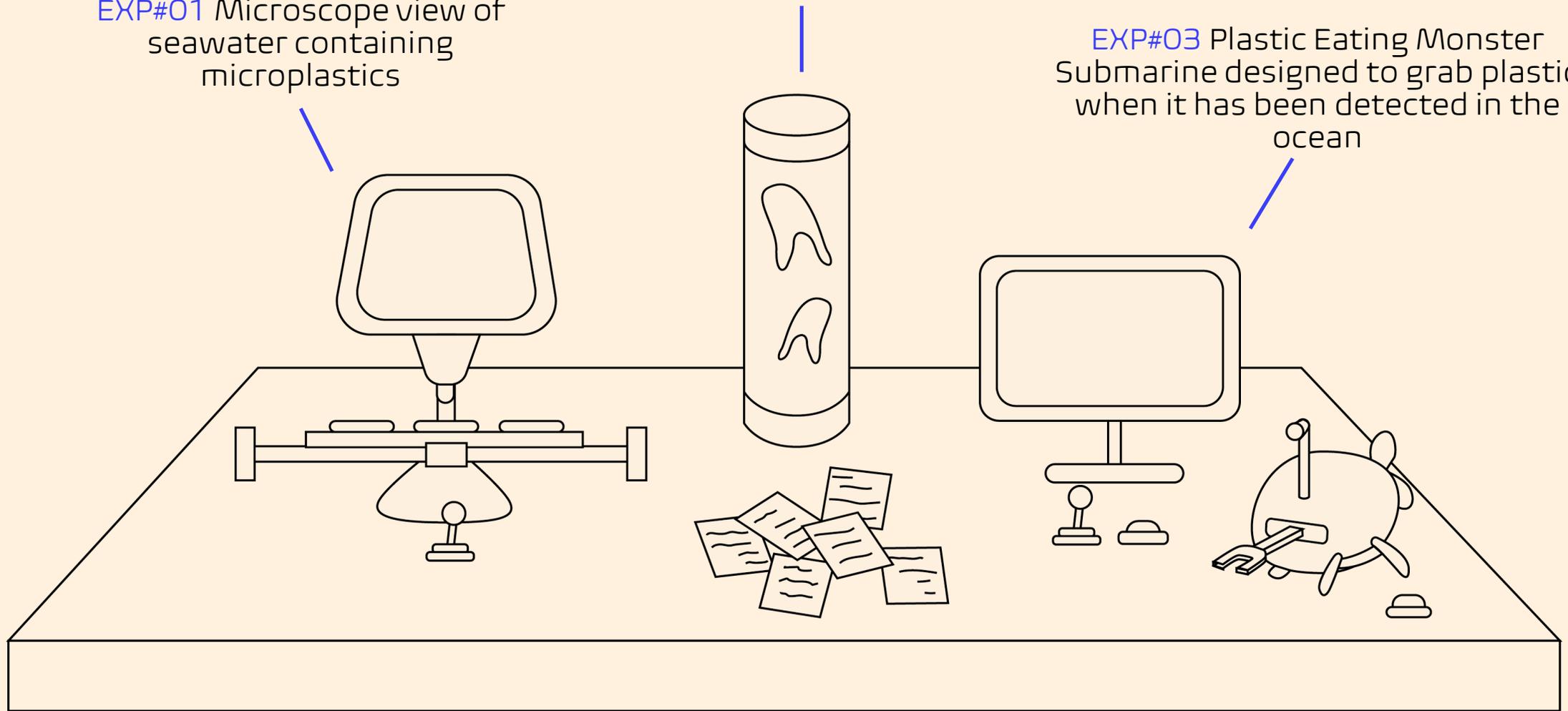
How do we remove the existing plastics in the ocean?

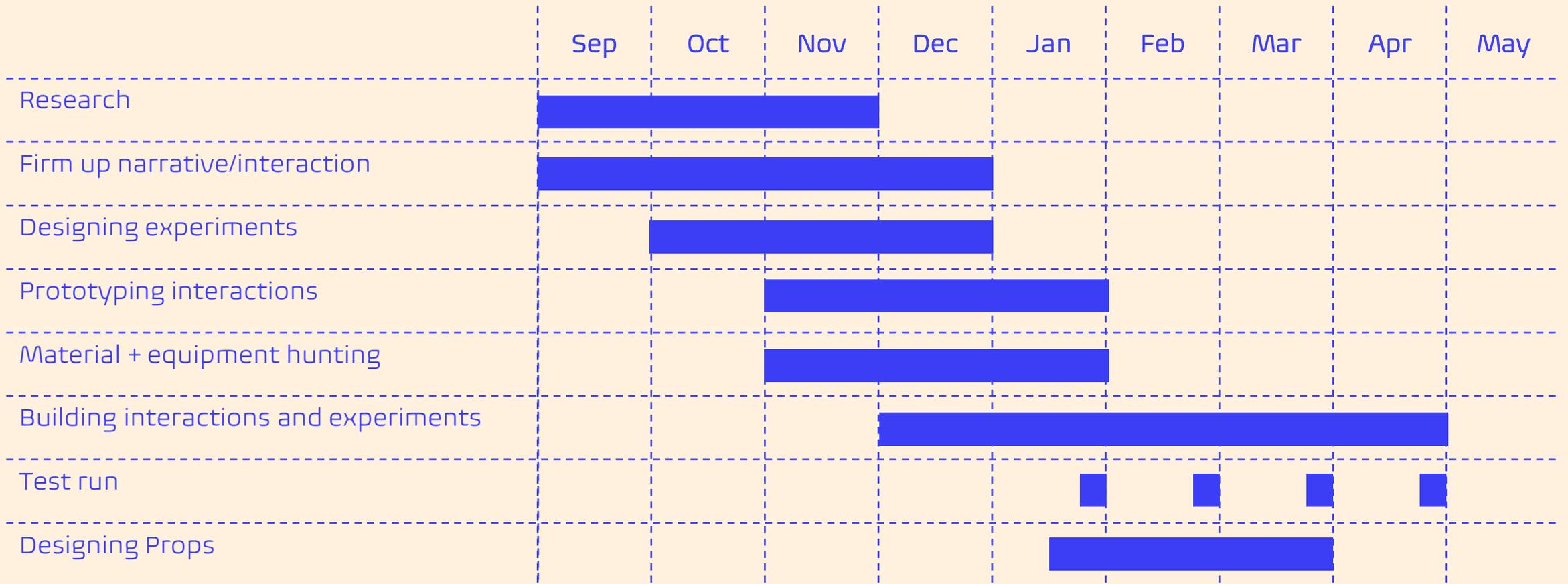


EXP#02 Plastic Bag or Jellyfish?
Turtles mistakenly eat plastic
bag thinking its jellyfish.

EXP#01 Microscope view of
seawater containing
microplastics

EXP#03 Plastic Eating Monster
Submarine designed to grab plastic
when it has been detected in the
ocean







Thank you!

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