

# Symbiotic Pairs

A Nature Inspired Matching Game

## What is it?

# A Card Game

This is a card game intended for students grade 4 and beyond. It involves matching symbiotic relationships found in nature.

## How do you play?

# Matching Pairs

Each student is given a letter in the alphabet and is asked to find their pair. In order to find their pair students must match up QR codes and color schemes.

## What's the take away?

# Learning and Engagement

This game is intended to get students involved in their studies and be excited to learn by giving them interesting and unusual imagery and fact about various symbiotic relationships in nature.



## Sea Cucumber

### Pairs with Imperial Shrimp

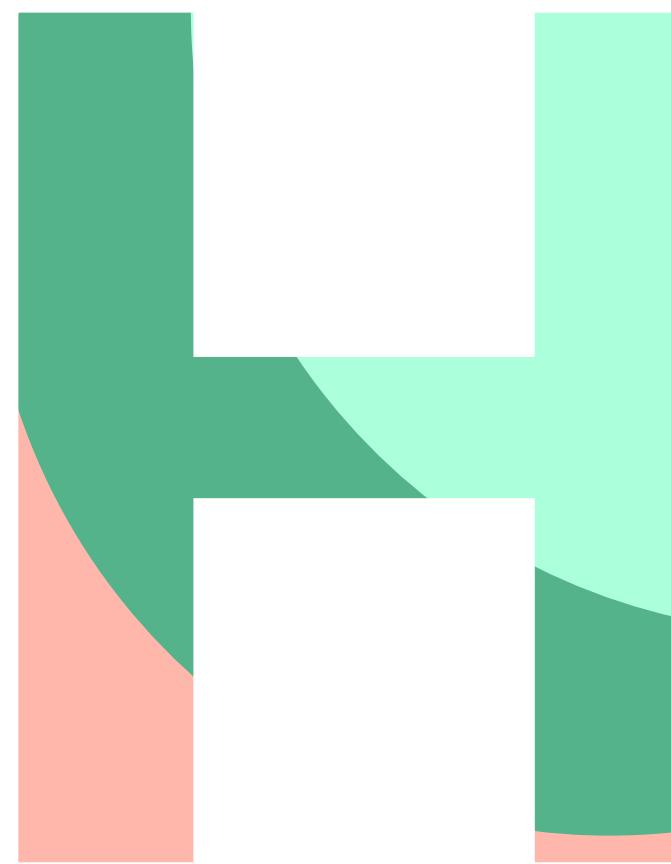
Slippery, slimy and squirmy. These little guys live deep in the ocean and feed off the ocean floor.



## Urchin

### Pairs with Carrier Crab

Thorny and prickly, urchins have many spines that stick up out of their body. They move around the ocean floor with tiny tube feet and feed on algae.



## Human

### Pairs with Bacteria

Big, small, short, tall. There are many people on earth all with a unique personality.

The First Letter

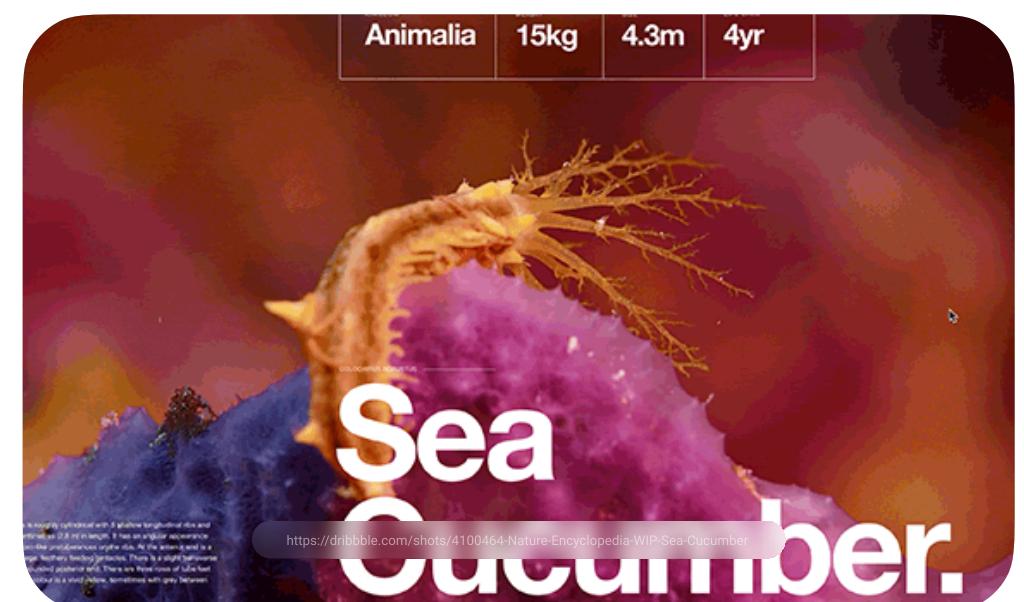
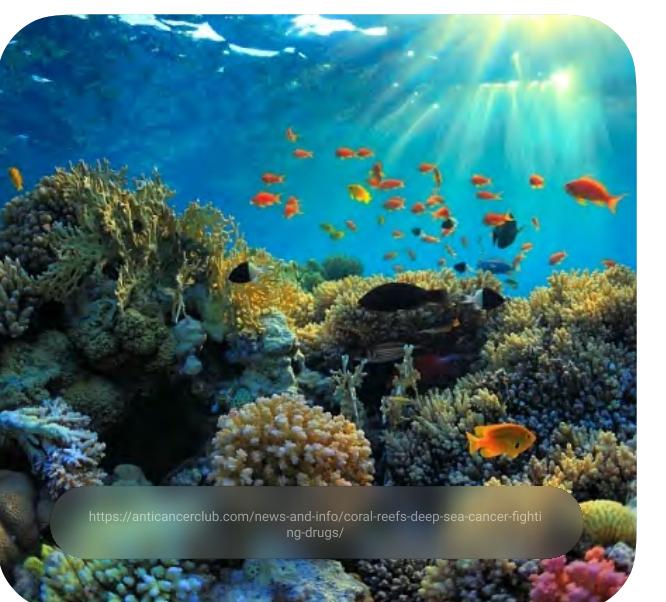
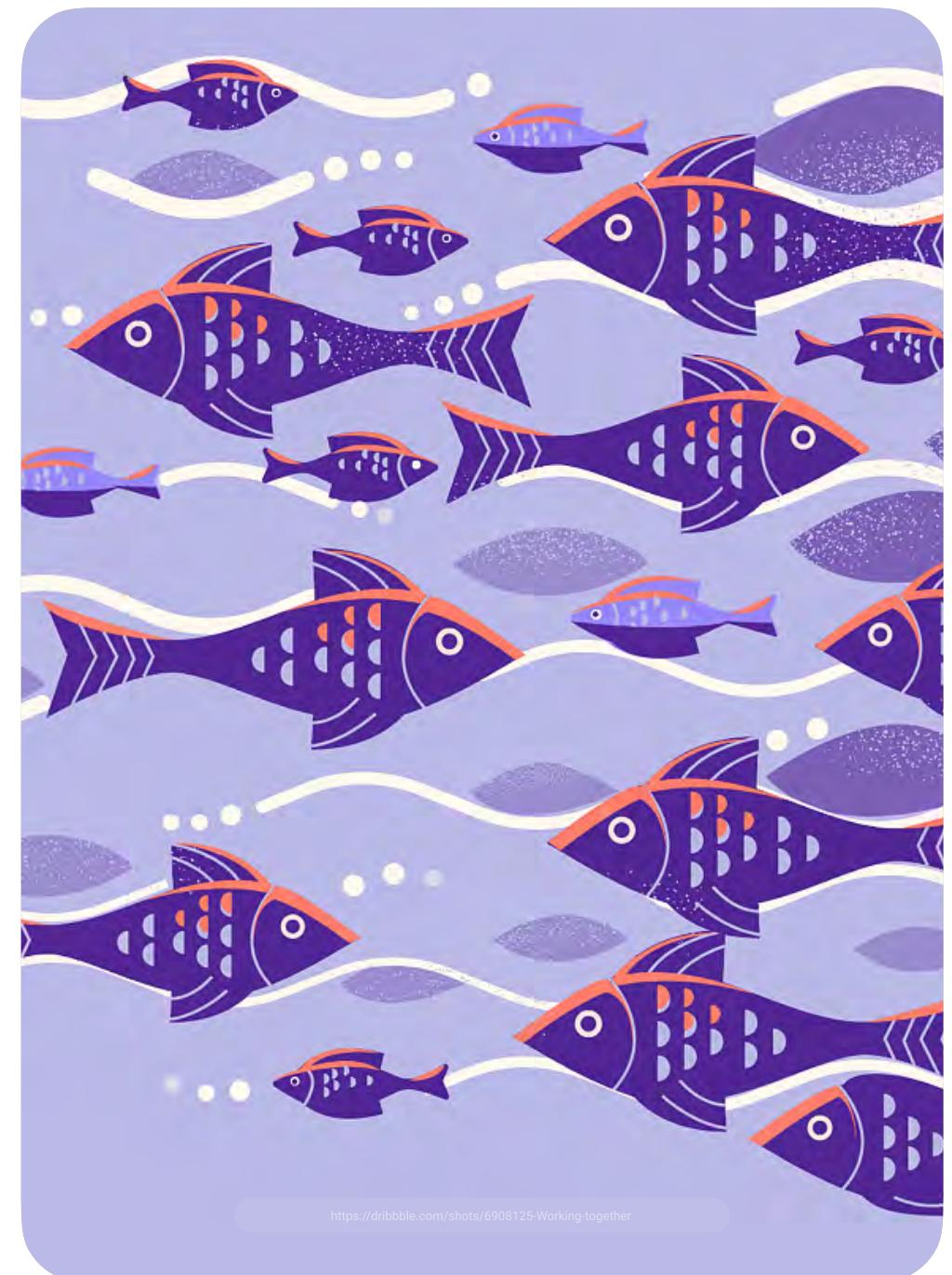
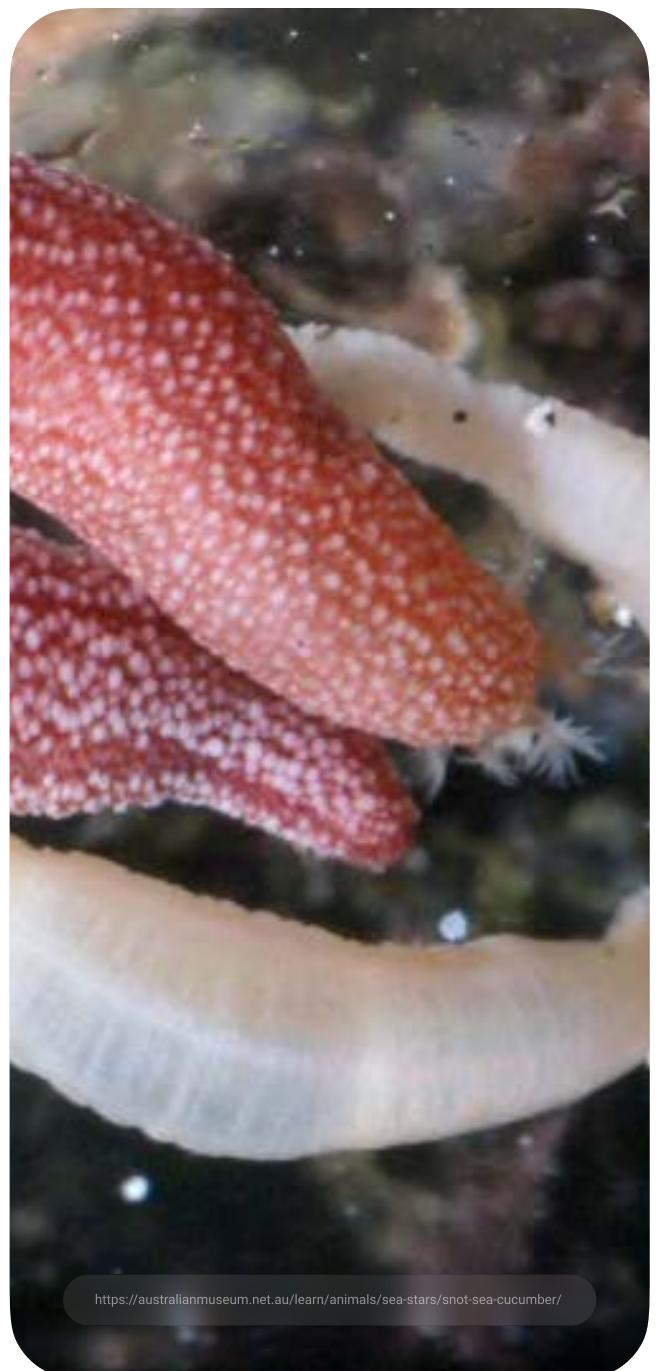
# Sea Cucumber

These are hard to come up with ideas for since they are basically giant worms in the ocean.

I wanted to focus on using the simpleness of the sea cucumber and use 2D illustration to describe it and its surroundings.

The mood/style board on the right describes simplified figures in expansive and busy environments.

## Color Swatches



The Second Letter

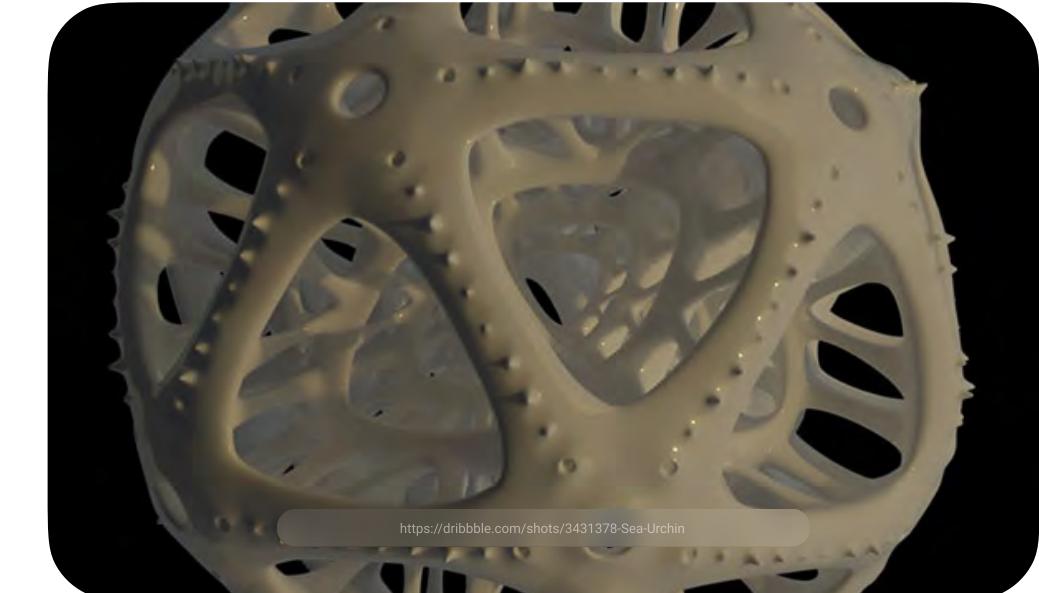
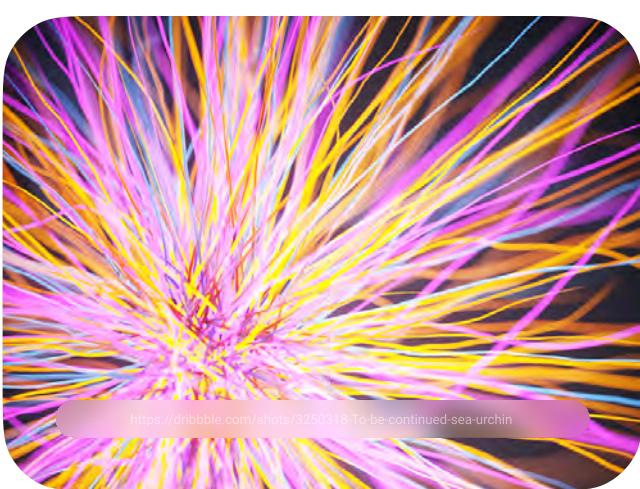
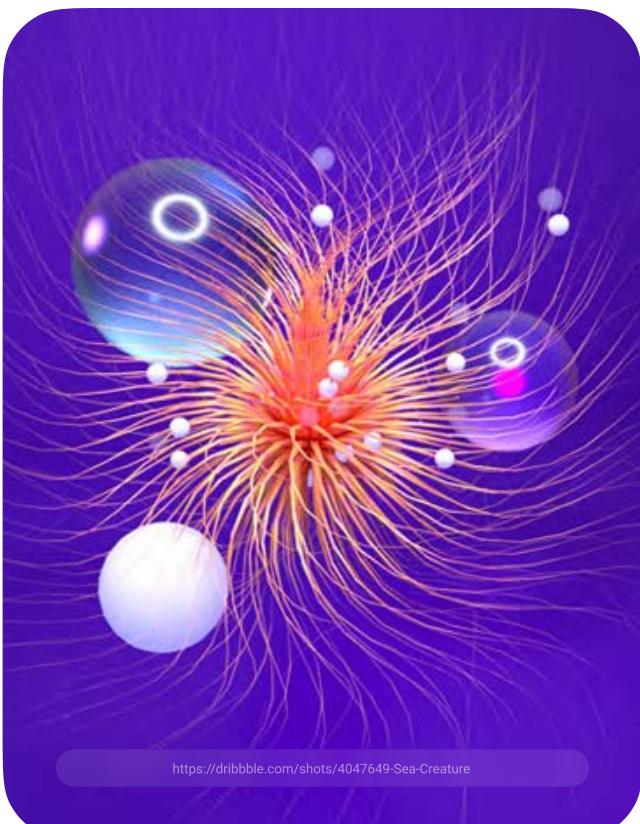
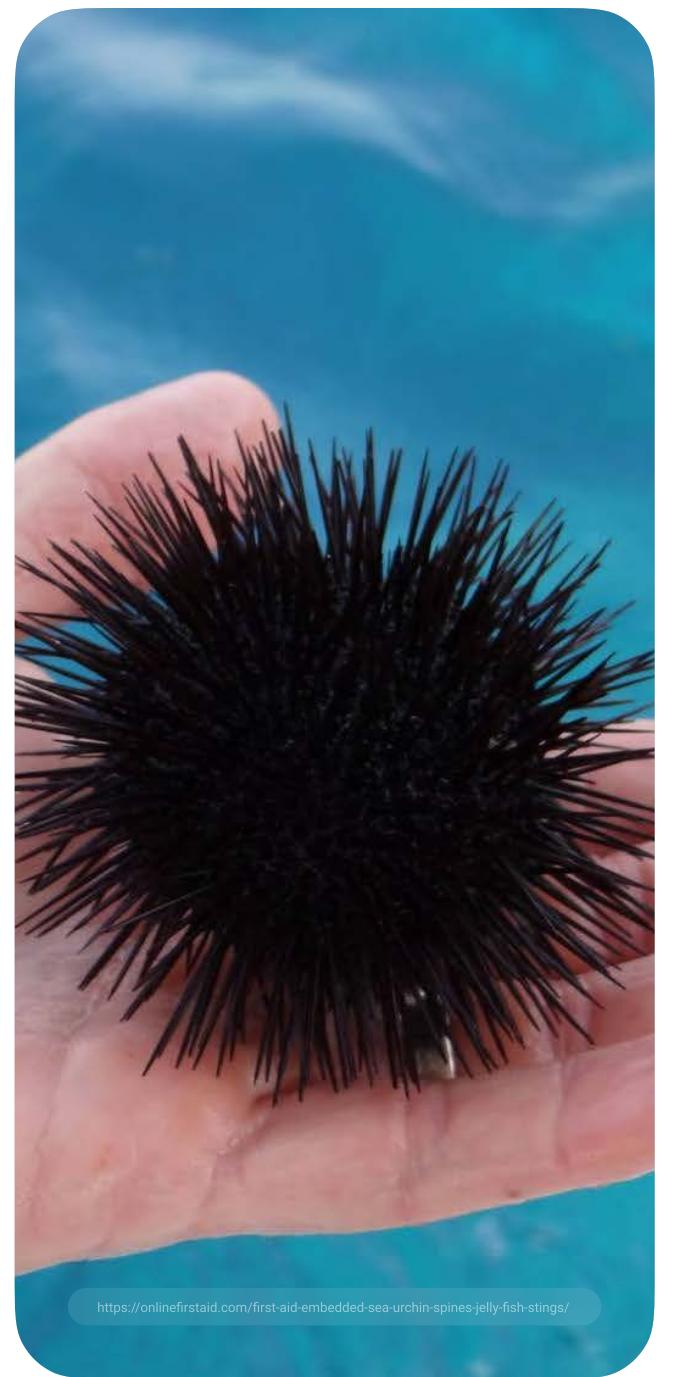
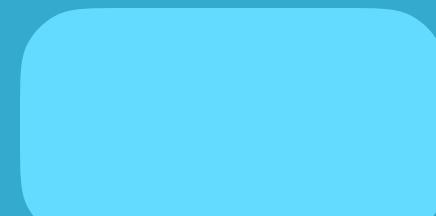
# Urchin

Pointy and brittle the urchin is another simple sea creature like the sea cucumber. It has a lot of dimension to it and I feel 3D is the best fit for this creature.

I want to focus on its spikes to possibly add attitude and flair to a rather scary looking creature.

The board describes dimentioality and abstract flair on rather uncommon shapes.

## Color Swatches



## The Third Letter

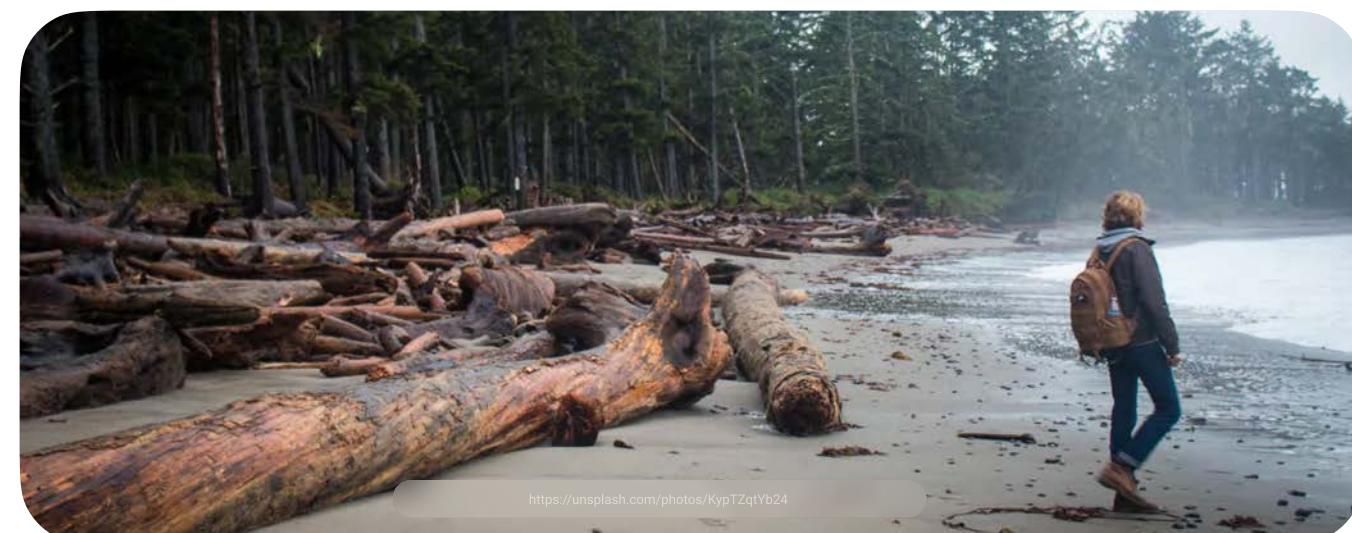
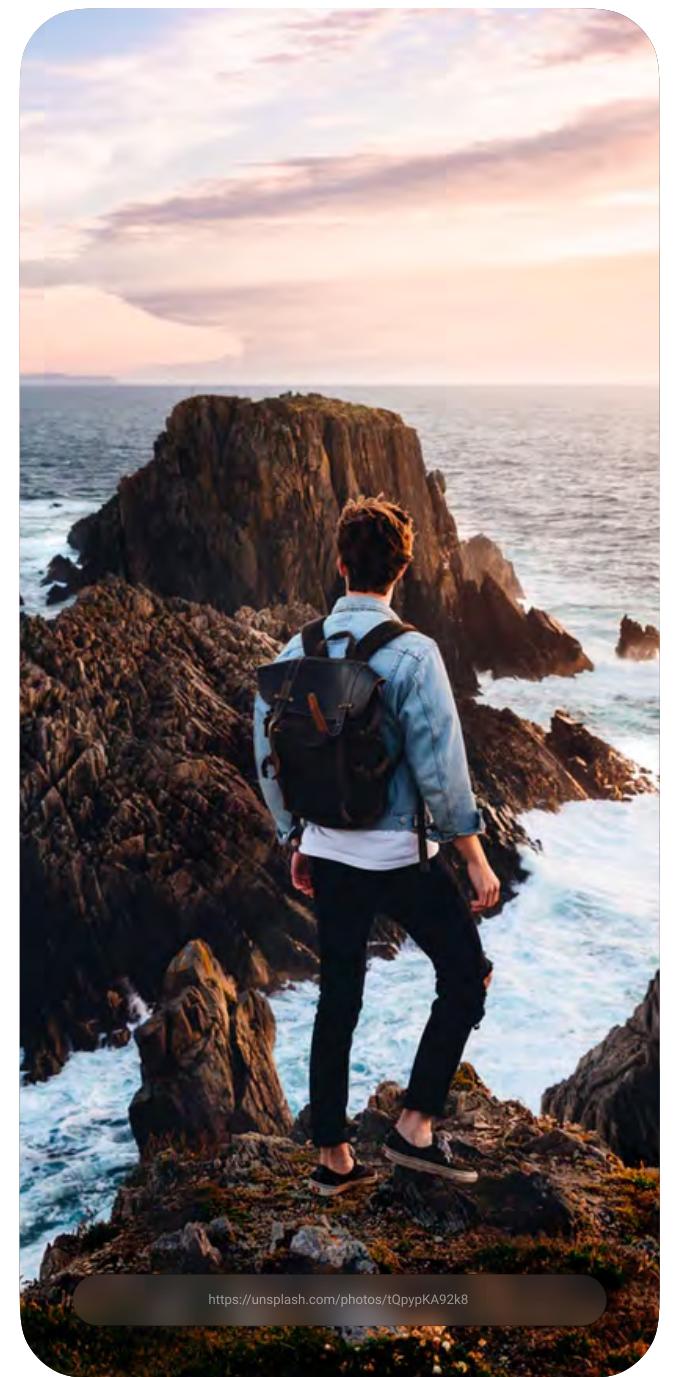
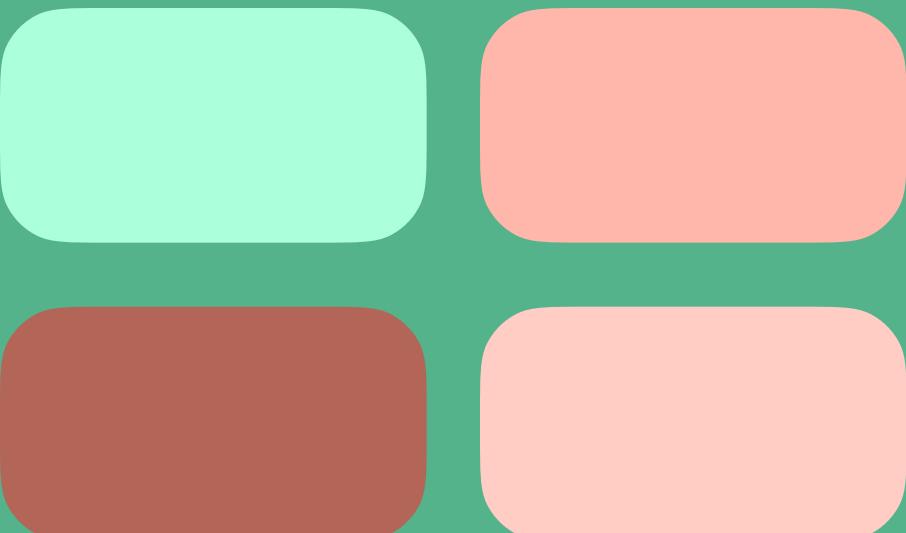
# Human

Pretty well known there are many different “types” of people and for this project I want to go with person set up in a scene.

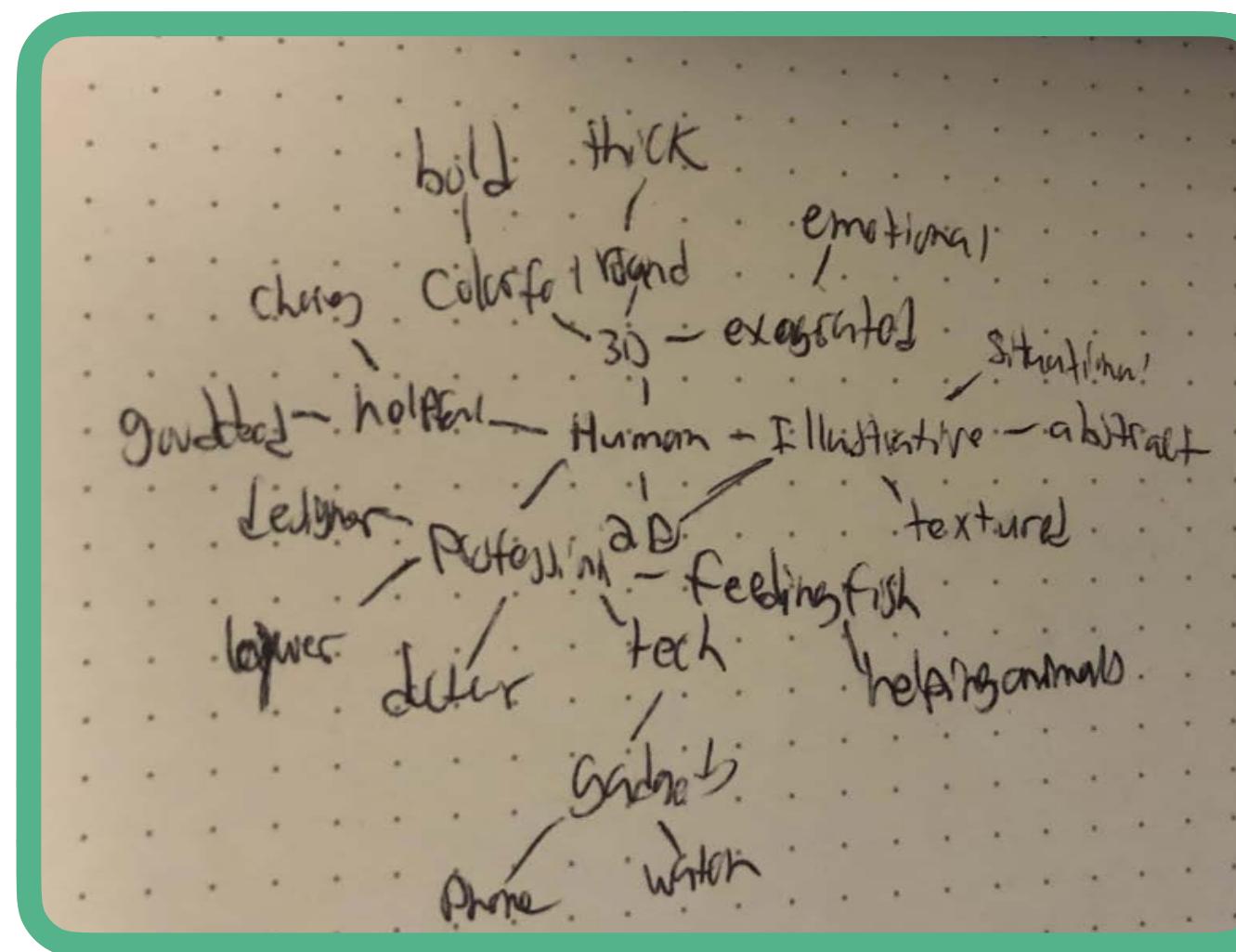
I think environmental illustration with texture will work the best for this and I plan to illustrate a singular person in a specific environment.

The board describes the possible environments and textures present.

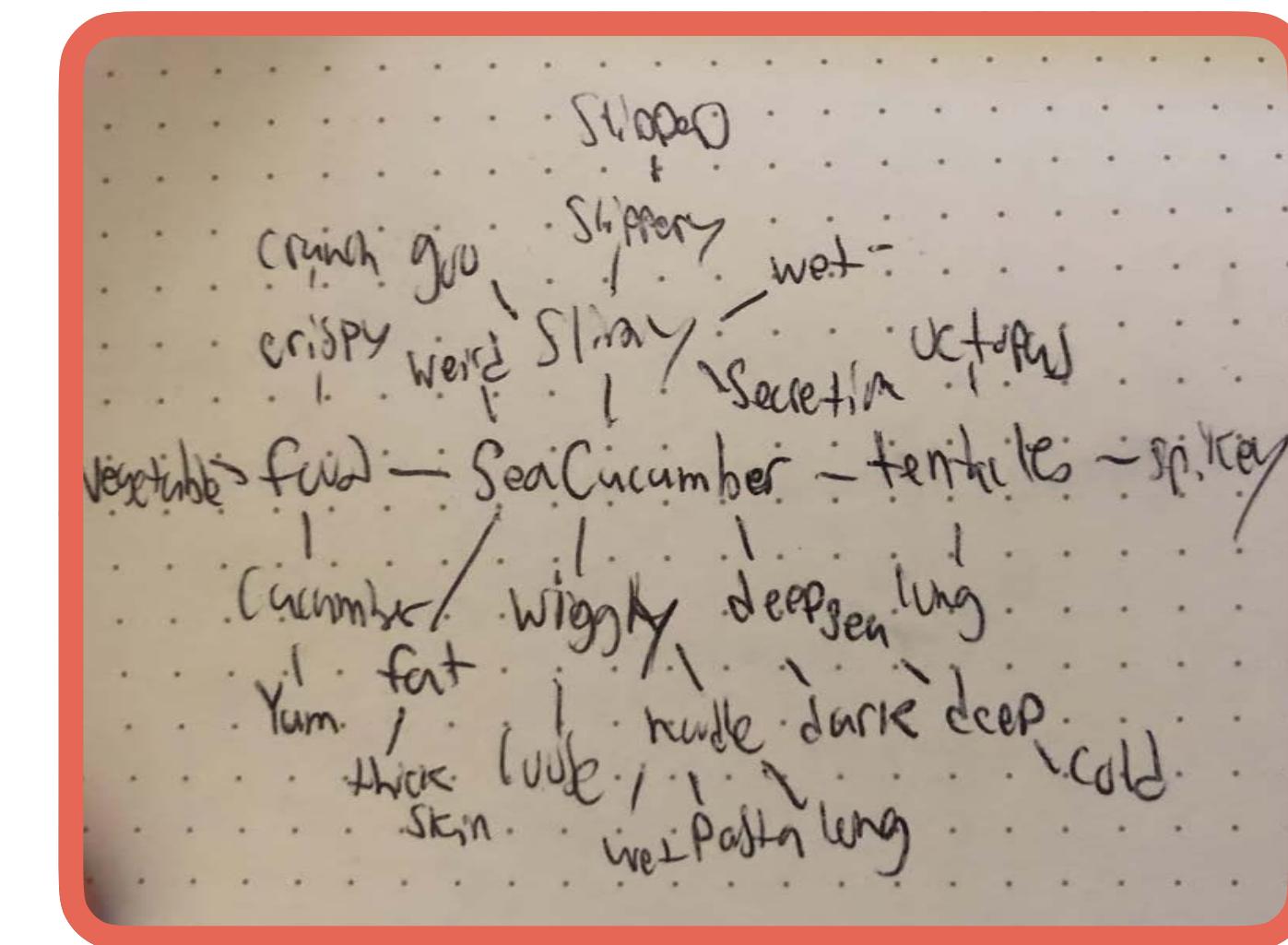
## Color Swatches



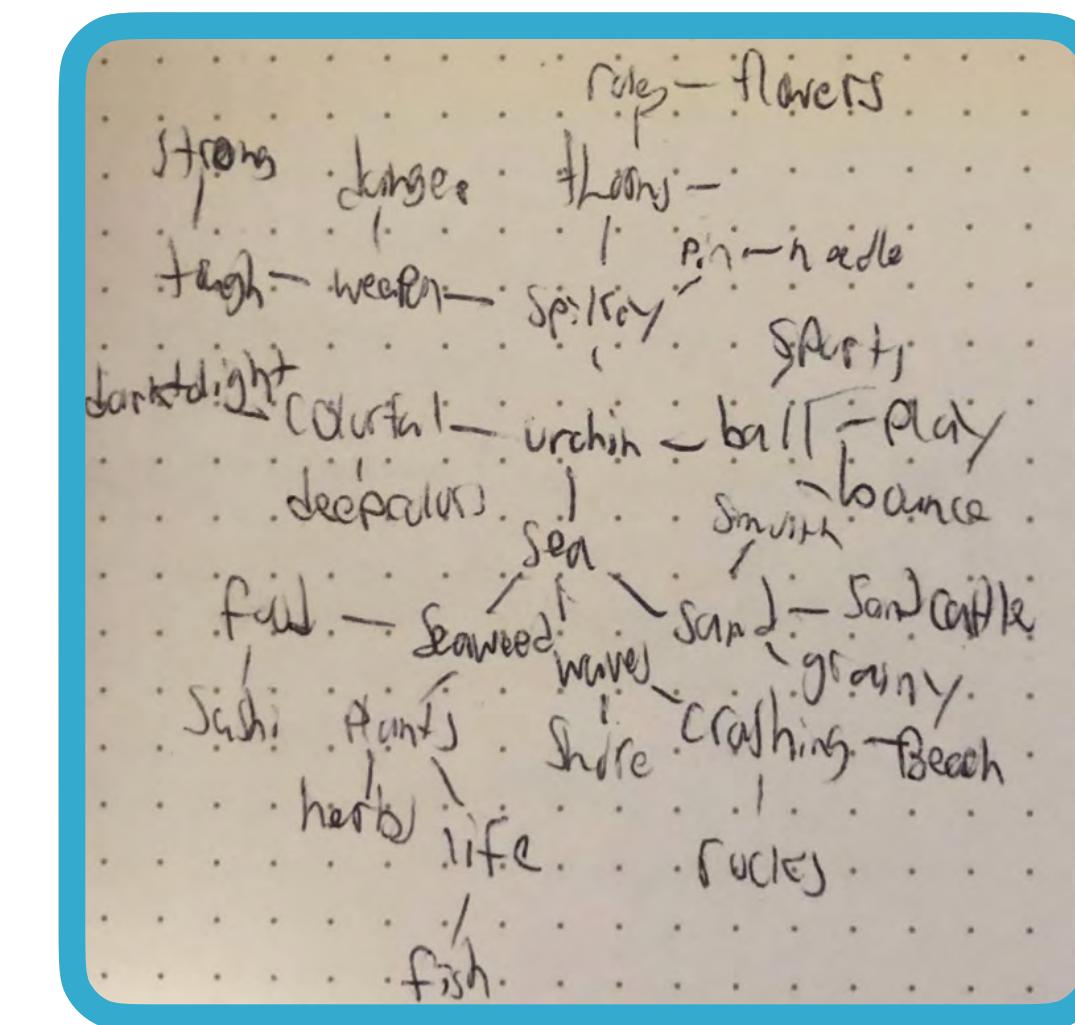
# Human

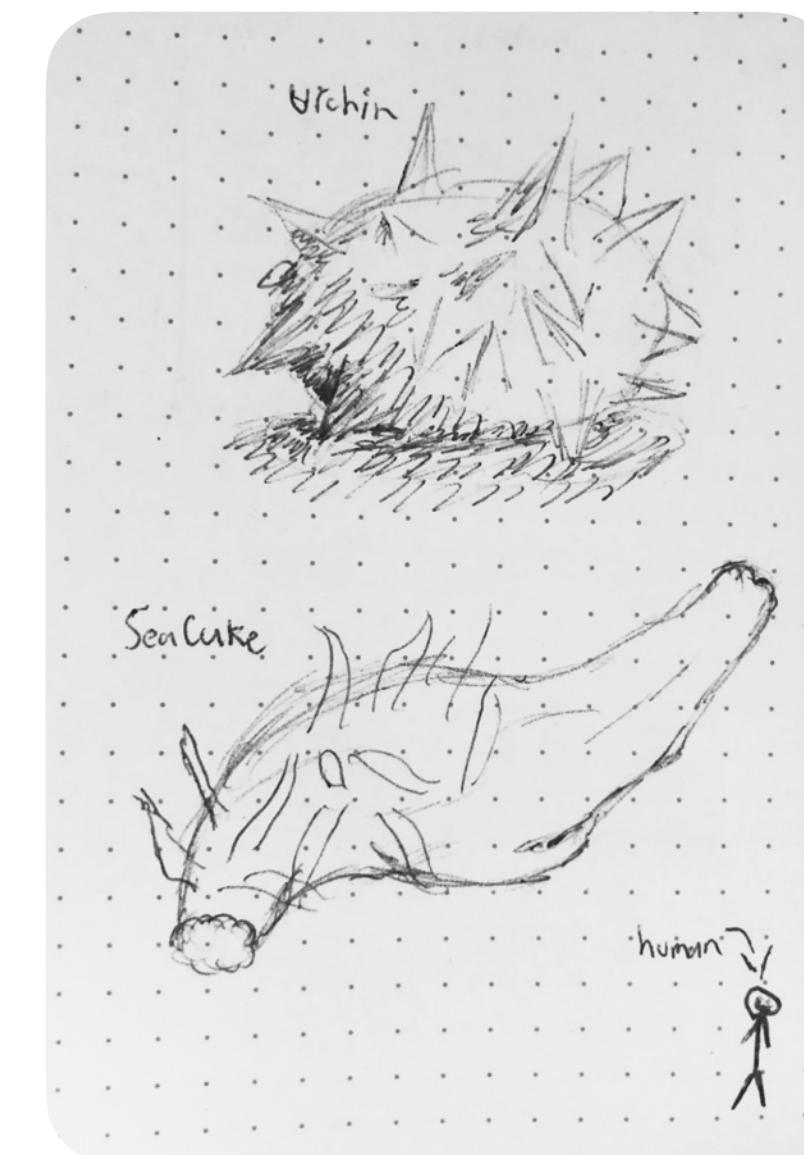
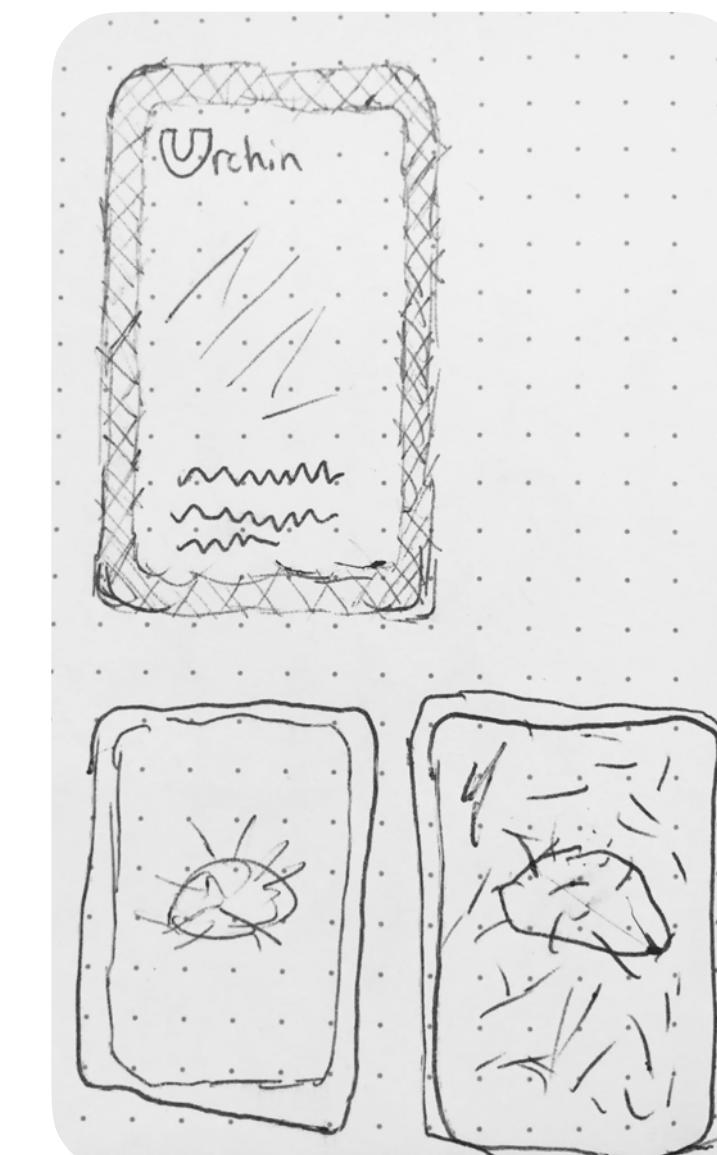
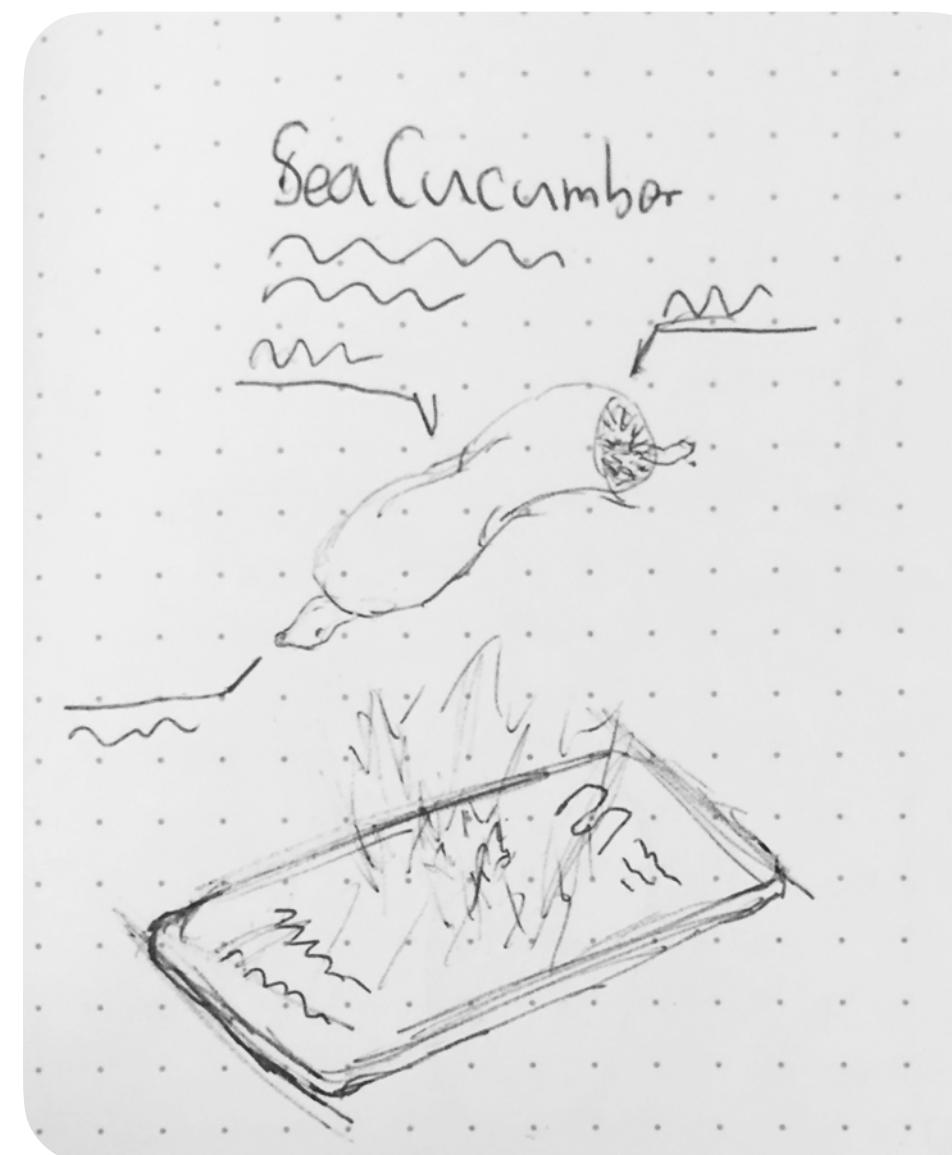
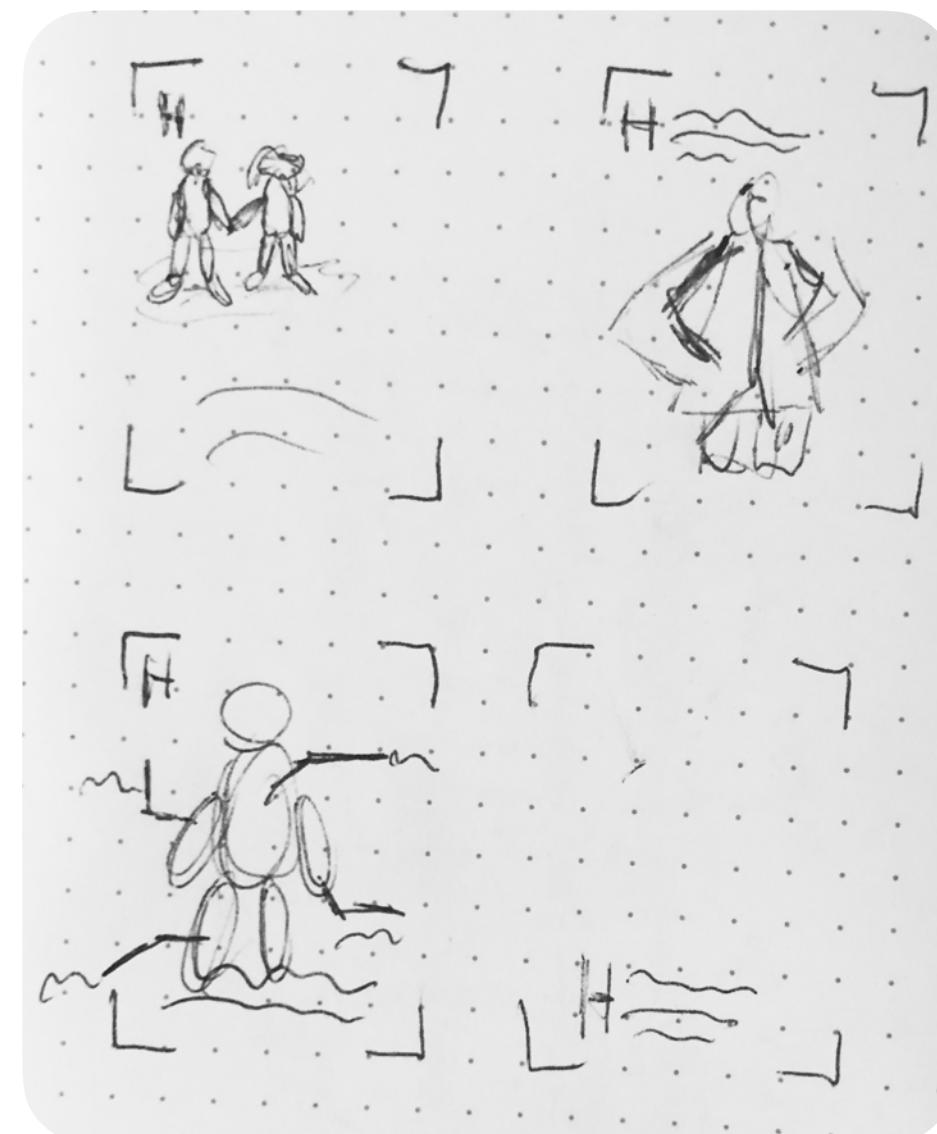
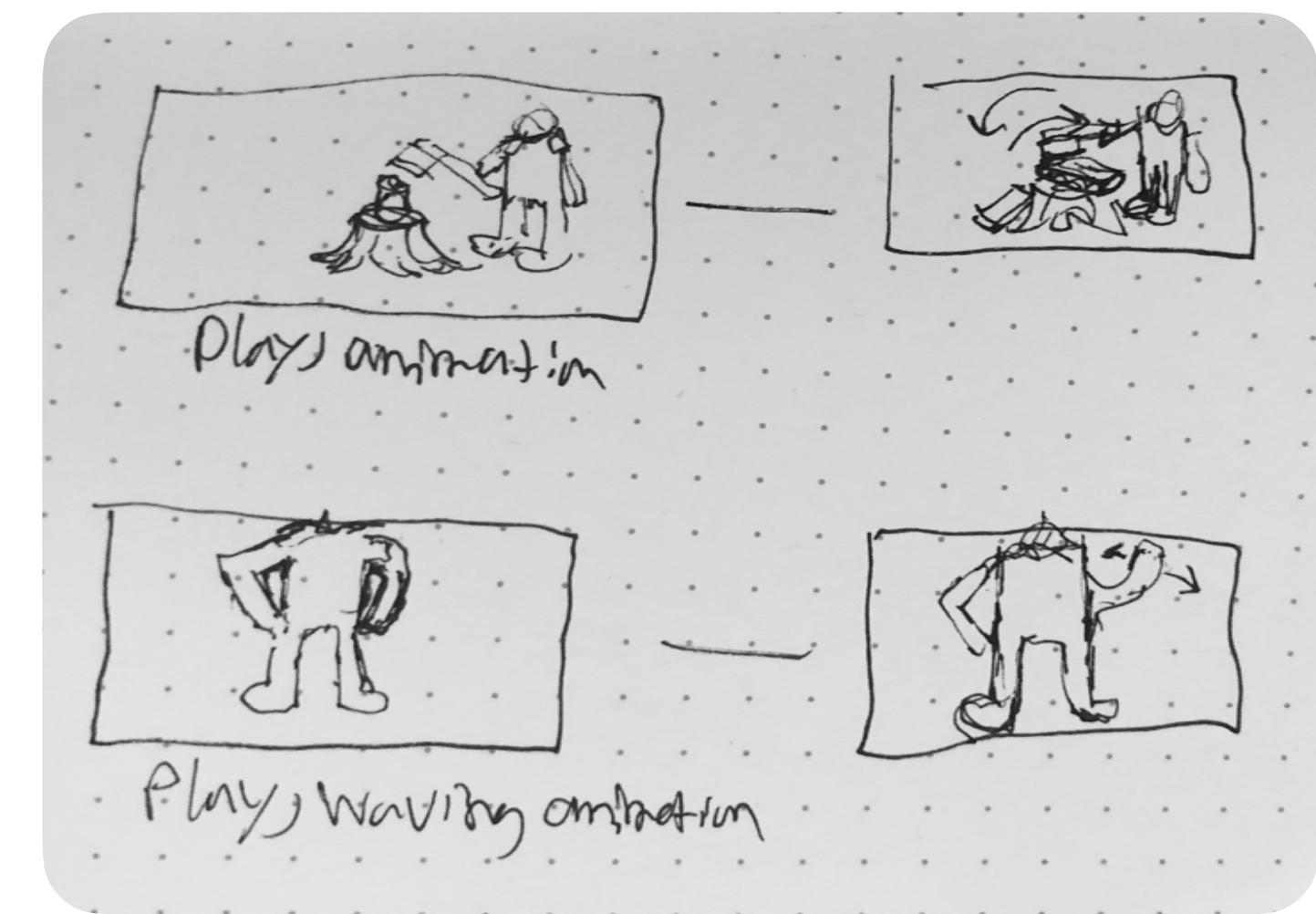
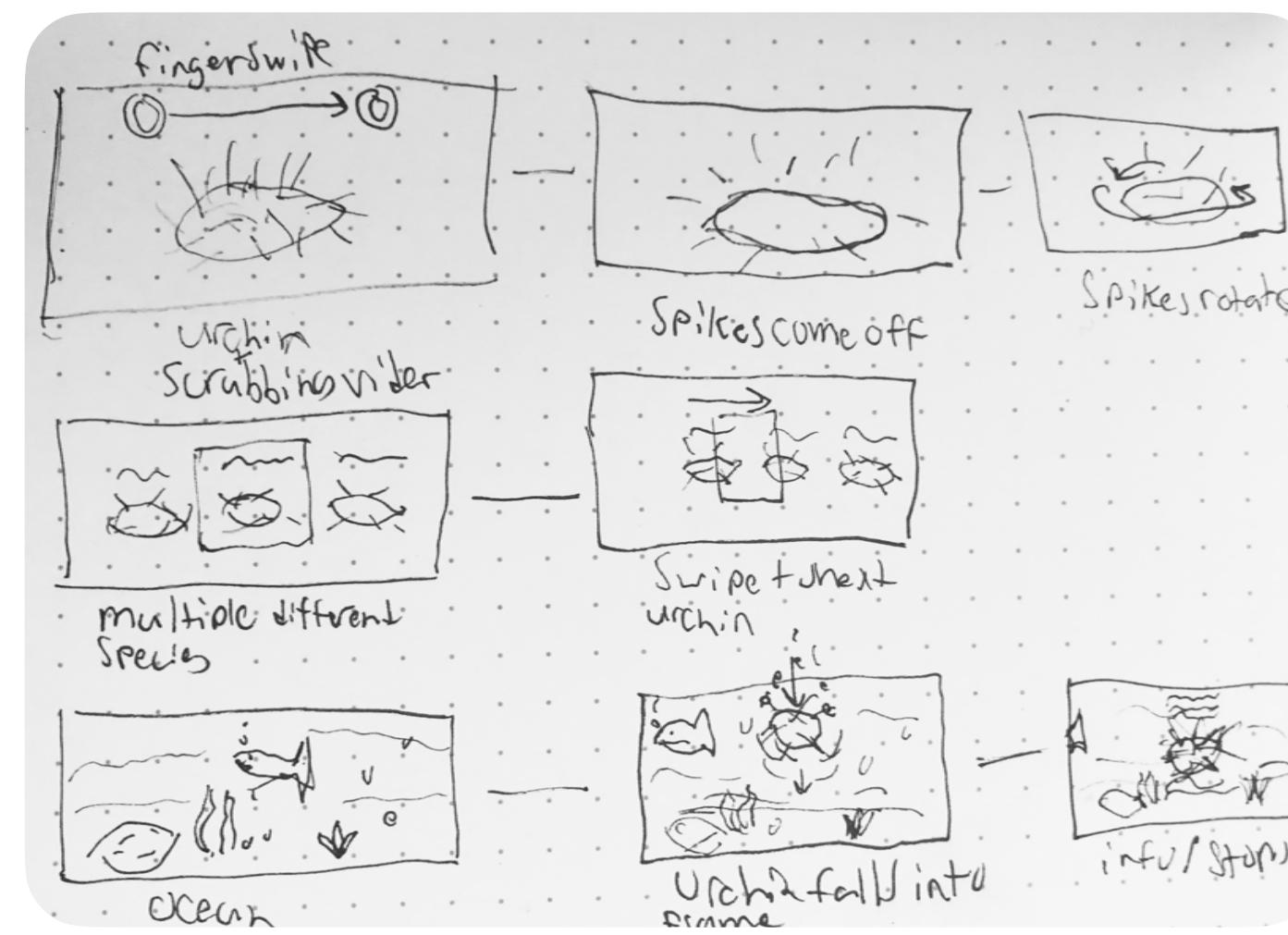
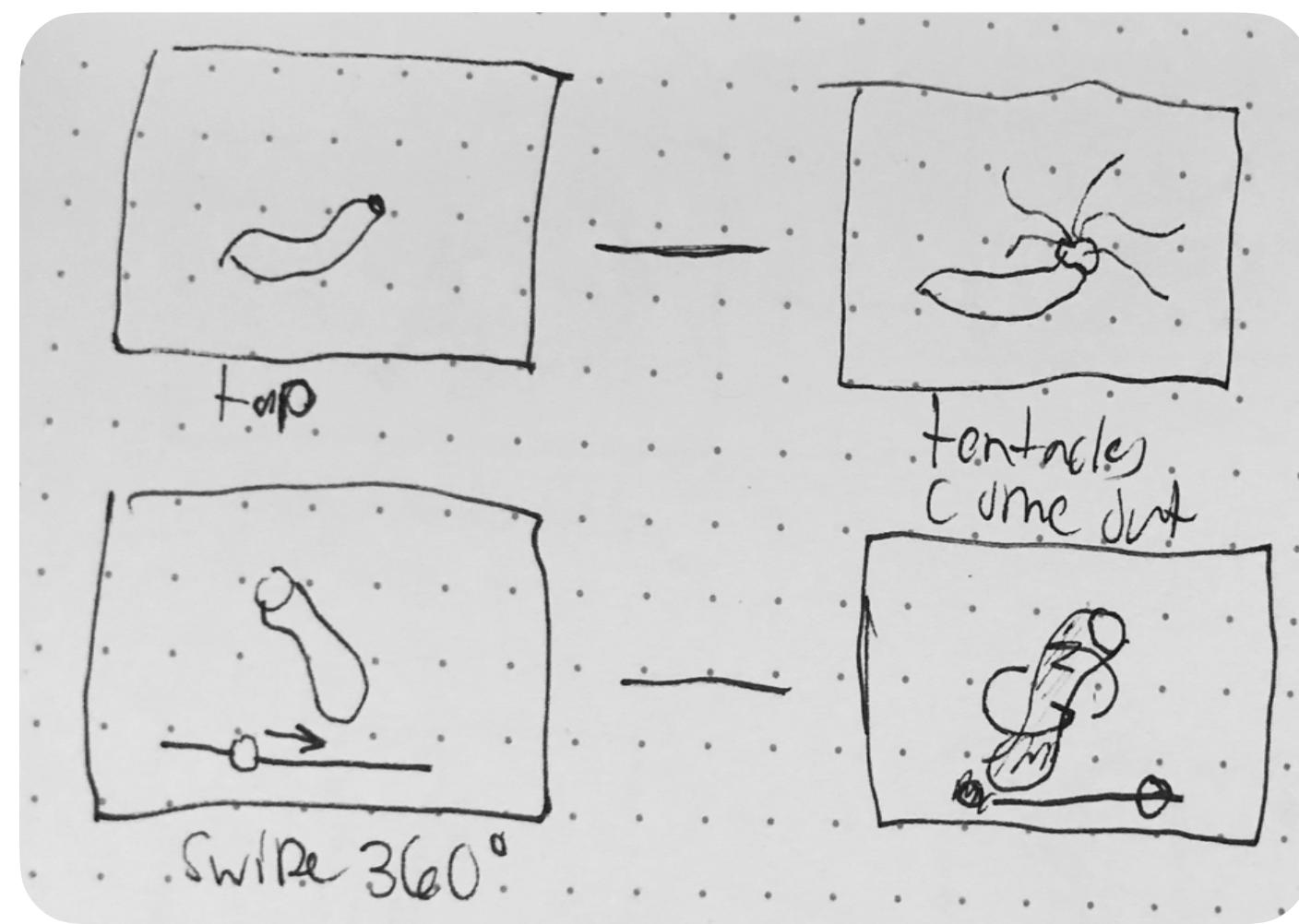


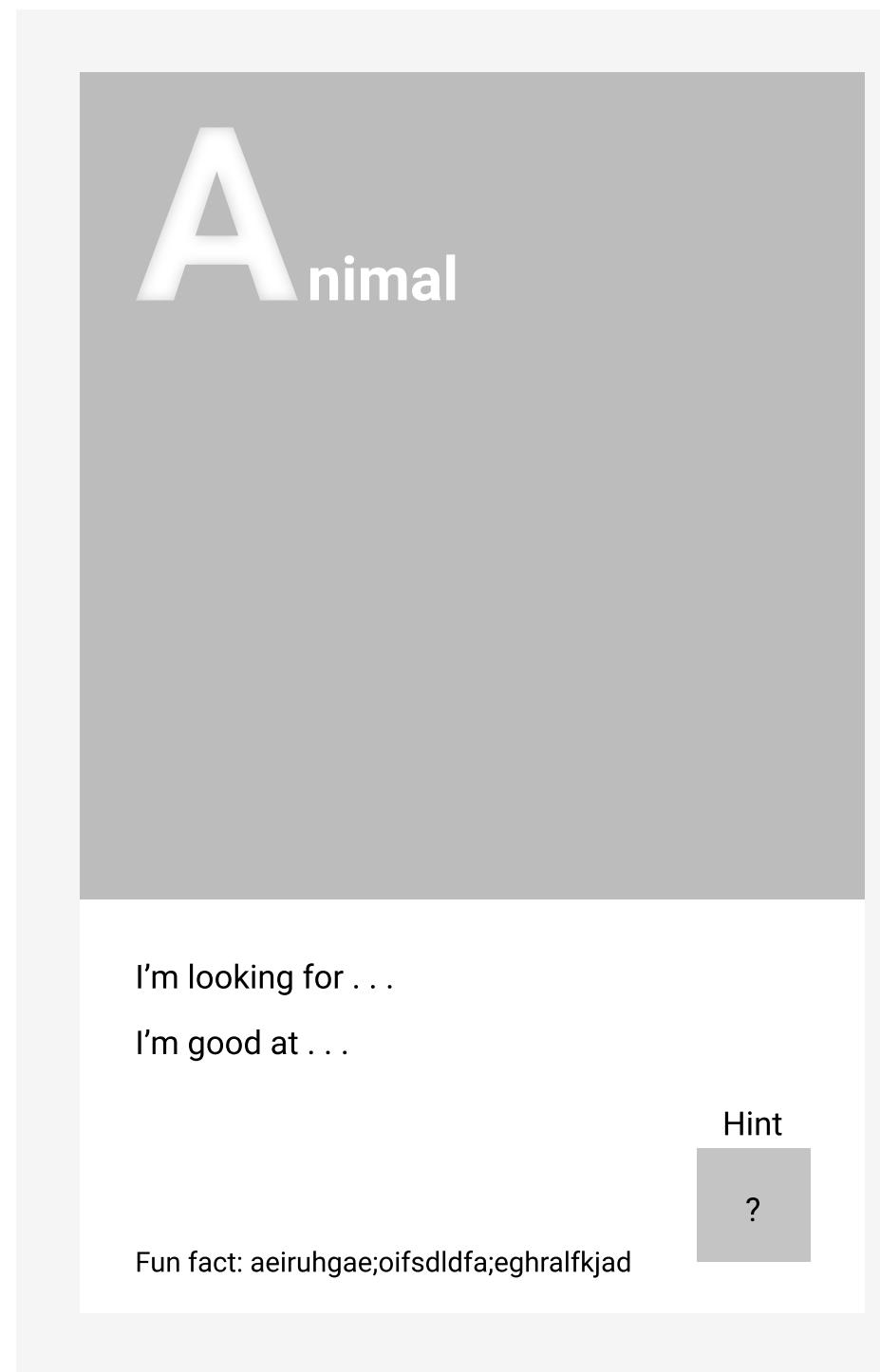
# Sea Cucumber



# Urchin



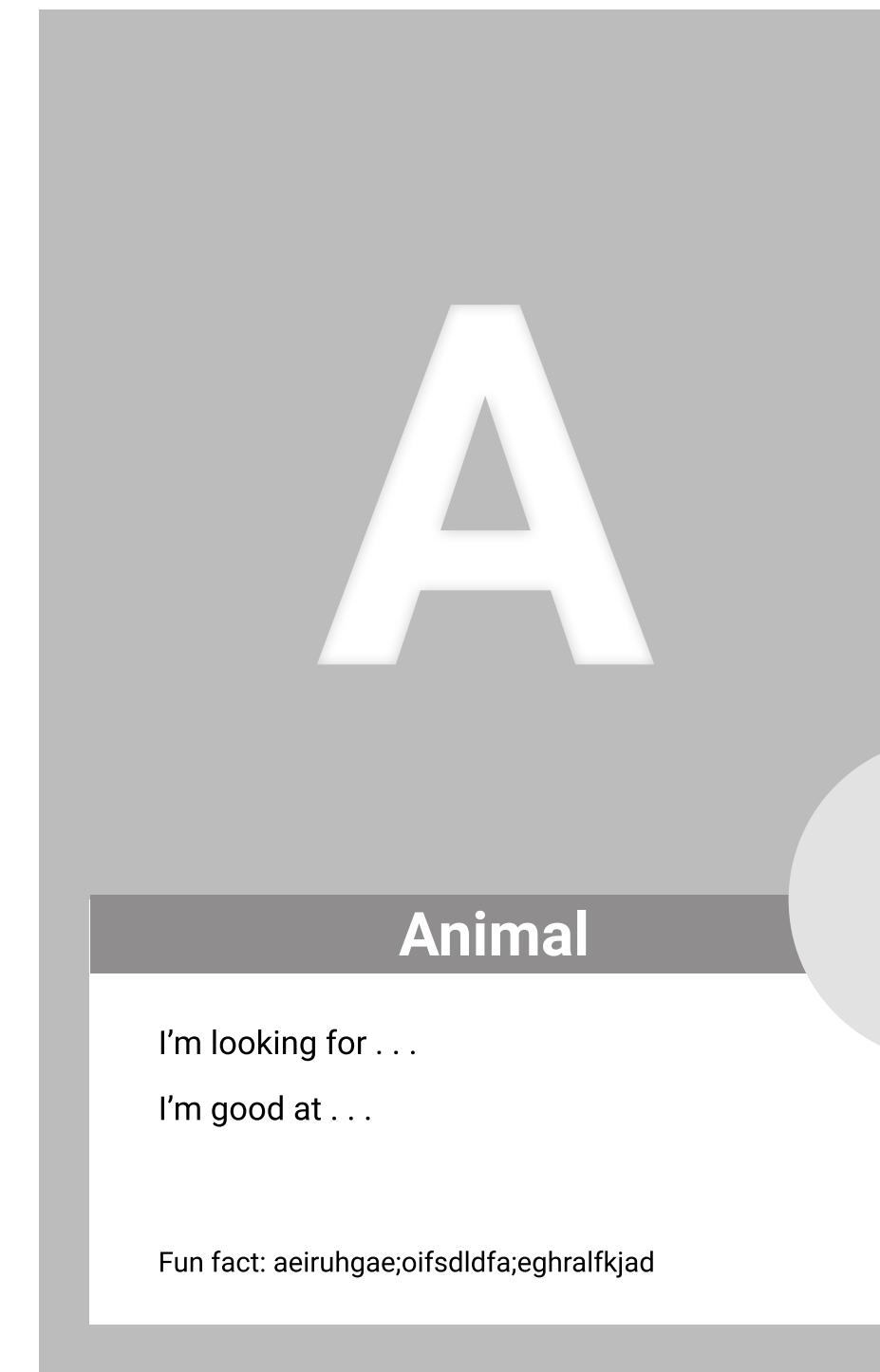




## First Iteration

### Initial Layout

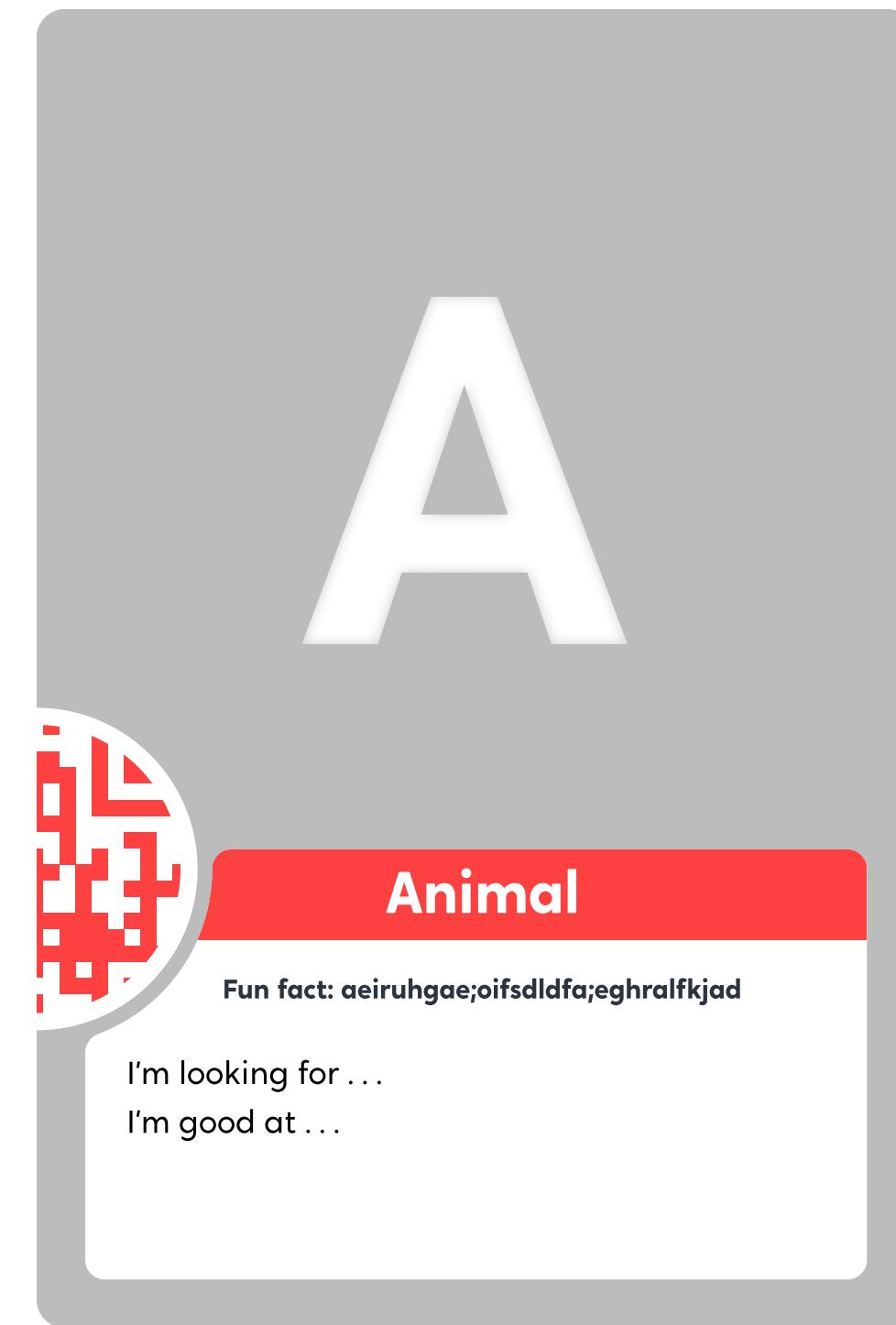
Initial design created during a group meeting where we pitched our ideas and requirements for the card.



## Second Iteration

### Added Marker and Hierarchy

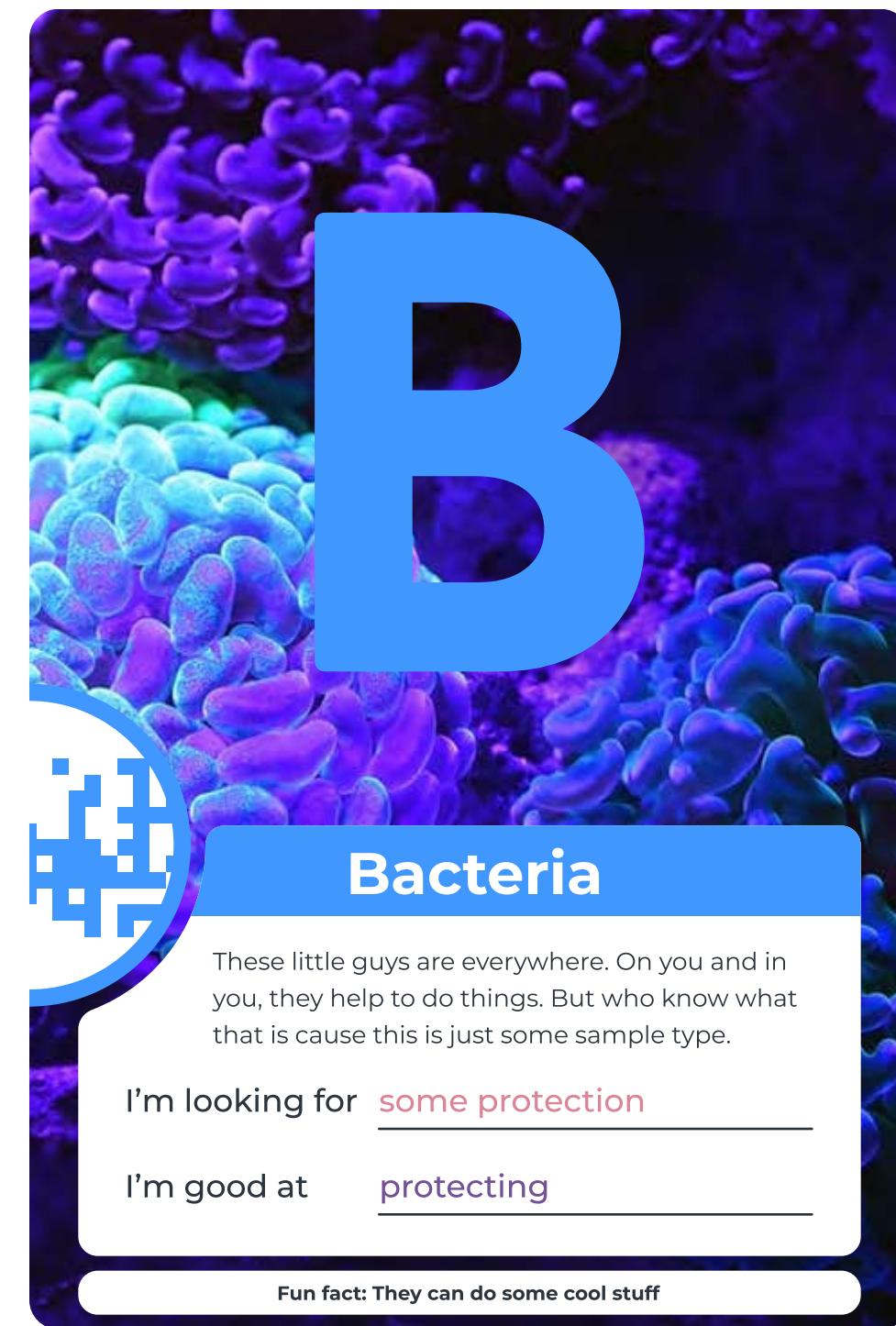
Removed the icon hint area and decided as a group to use a marker on the side instead that matches up with its pair to form a QR code.



## Third Iteration

### Color and Initial Match Marker Ideas

Style is added such as rounded corners, color and QR code ideas.



## Fourth Iteration

### Refined the Typography

An image from unsplash.com was added as a visual to see how the card could look once the illustrations are done. As well places for all the text was added.

# First Version U Card

The initial final composition of the Sea Urchin card.

Things to fix in the future are the intersecting tentacles  
and to add blue into the background.



## Sea Urchin

I'm a Sea Urchin! I can be found in underwater environments. To survive, I need help from a [creepy crawler of the deep blue](#) who will help me get food!



## Sea Urchin

### Info About The Urchin

Sea Urchins have spiky spikes that are sometimes poisonous. They can also be eating, at least the insides of them can be.

### Sea Urchin

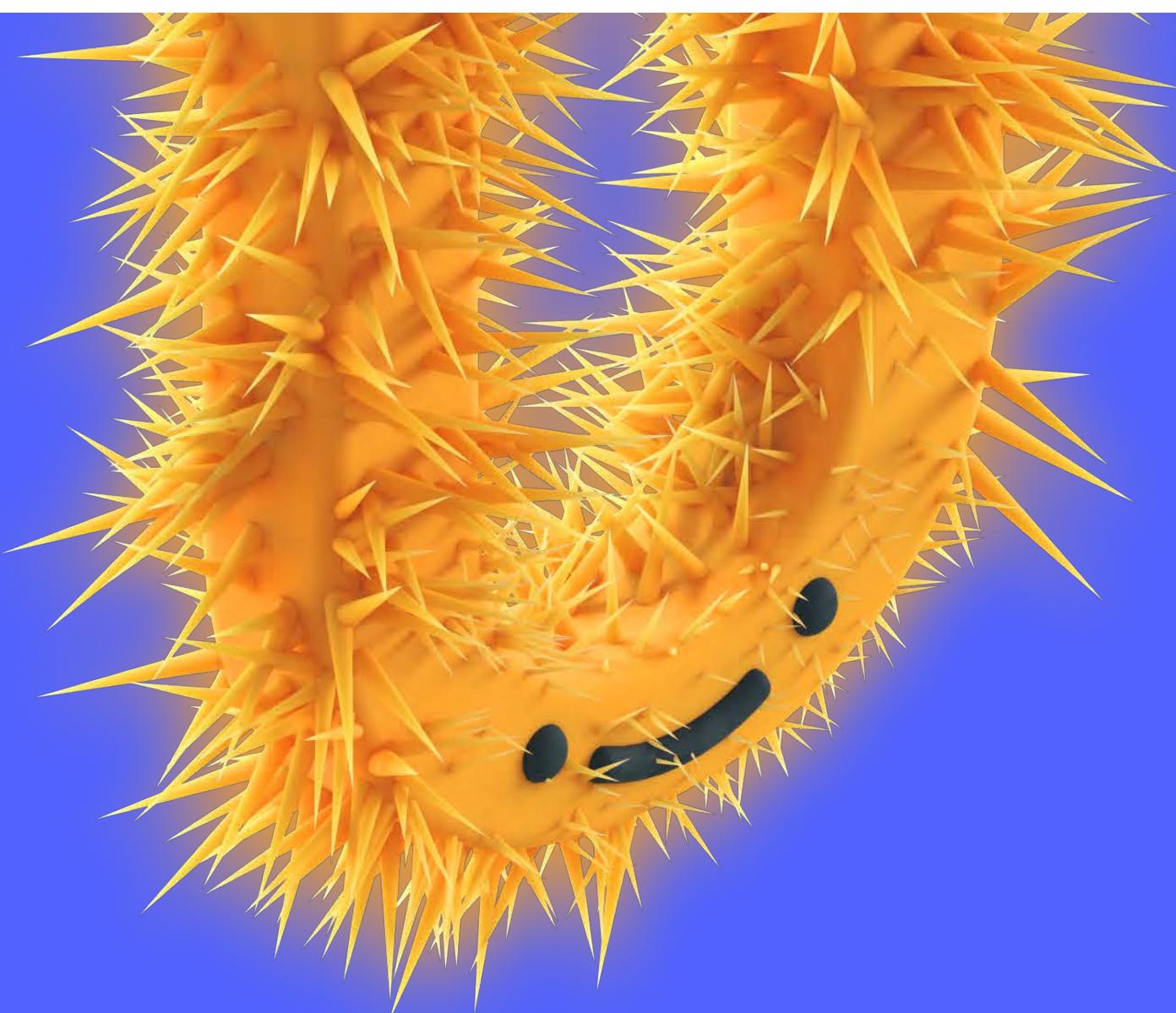
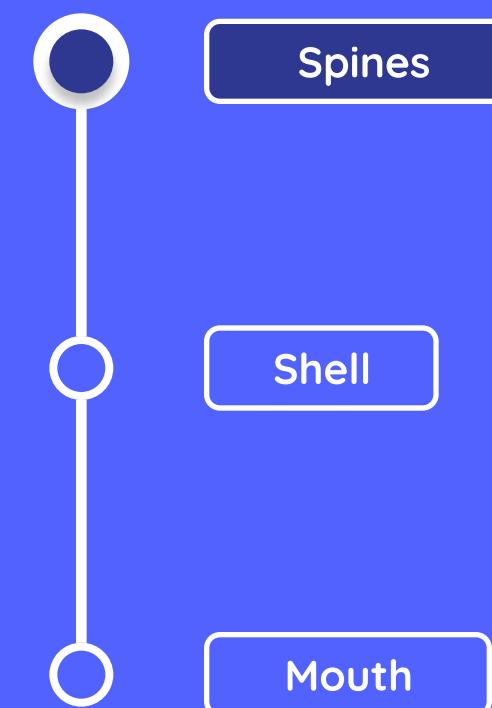
I'm a Sea Urchin! I can be found in underwater environments. To survive, I need help from a **creepy crawler of the deep blue** who will help me get food!

AR Frame

Hurley | Planet People

# Sea Urchin

Sea Urchins have spiky spikes that are sometimes poisonous. They can also be eaten, at least the insides of them can be.



## Mouth

The jaw apparatus consists of five strong arrow-shaped plates known as pyramids, the ventral surface of each of which has a toothband with a hard tooth pointing towards the centre of the mouth.