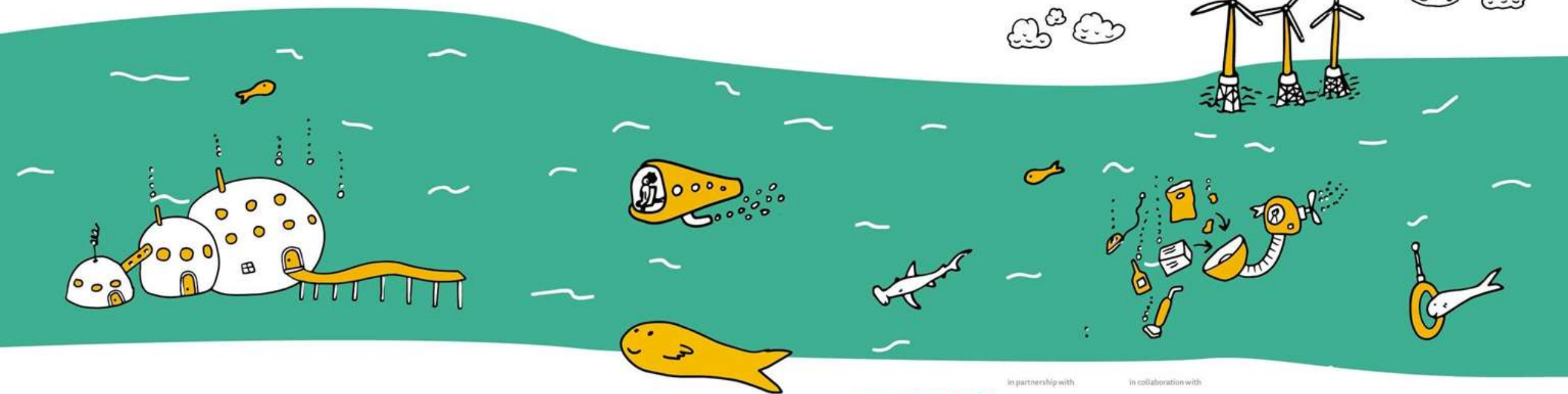


# Mission: Protect our oceans

## Inventions to change the tide!



**NSERC and CCUNESCO** want to hear from you!



Take the plunge and become an ocean scientist with a new Little Inventors challenge...



**2021**  
**2030** United Nations Decade  
of Ocean Science  
for Sustainable Development

# To enter the challenge...

...It's simple!

- Find out about oceans!
- Think up and draw an invention
- Share it with us!

Draw BIG, add labels and name your idea!

My ocean invention!

Use a black pen, add colour and label the parts.

Date ..... Age .....



Name .....

School ..... City .....

My invention is called:  
.....  
.....  
.....  
.....  
.....  
.....

What does it do? How does it work?  
How does it help protect our oceans?  
.....  
.....  
.....  
.....  
.....

Upload your idea at: [nserc.littleinventors.org](http://nserc.littleinventors.org) to enter the Energy challenge. Who knows, it could be chosen to be made real!

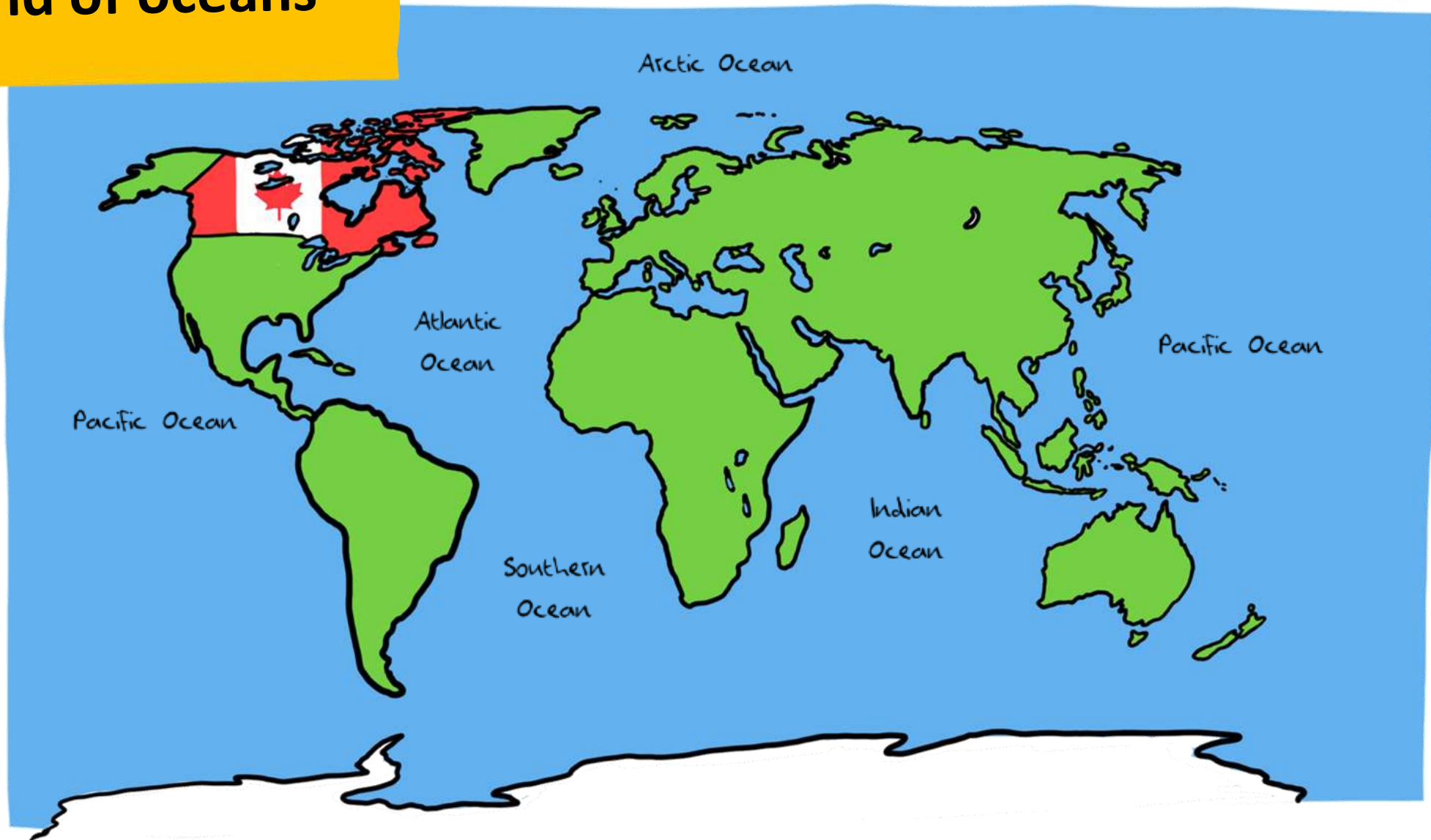
 

[nserc.littleinventors.org](http://nserc.littleinventors.org)

[nserc.littleinventors.org](http://nserc.littleinventors.org)



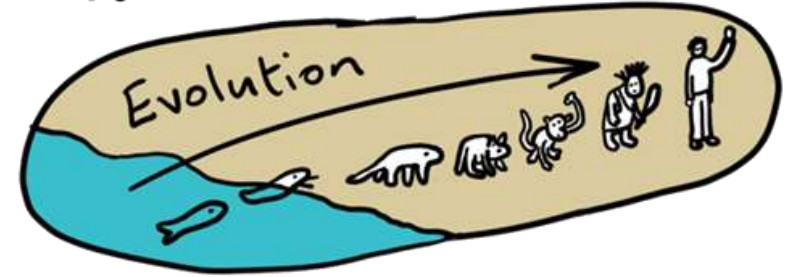
# A world of oceans



# Mighty oceans!

Covers 70% of the planet

Source of all life



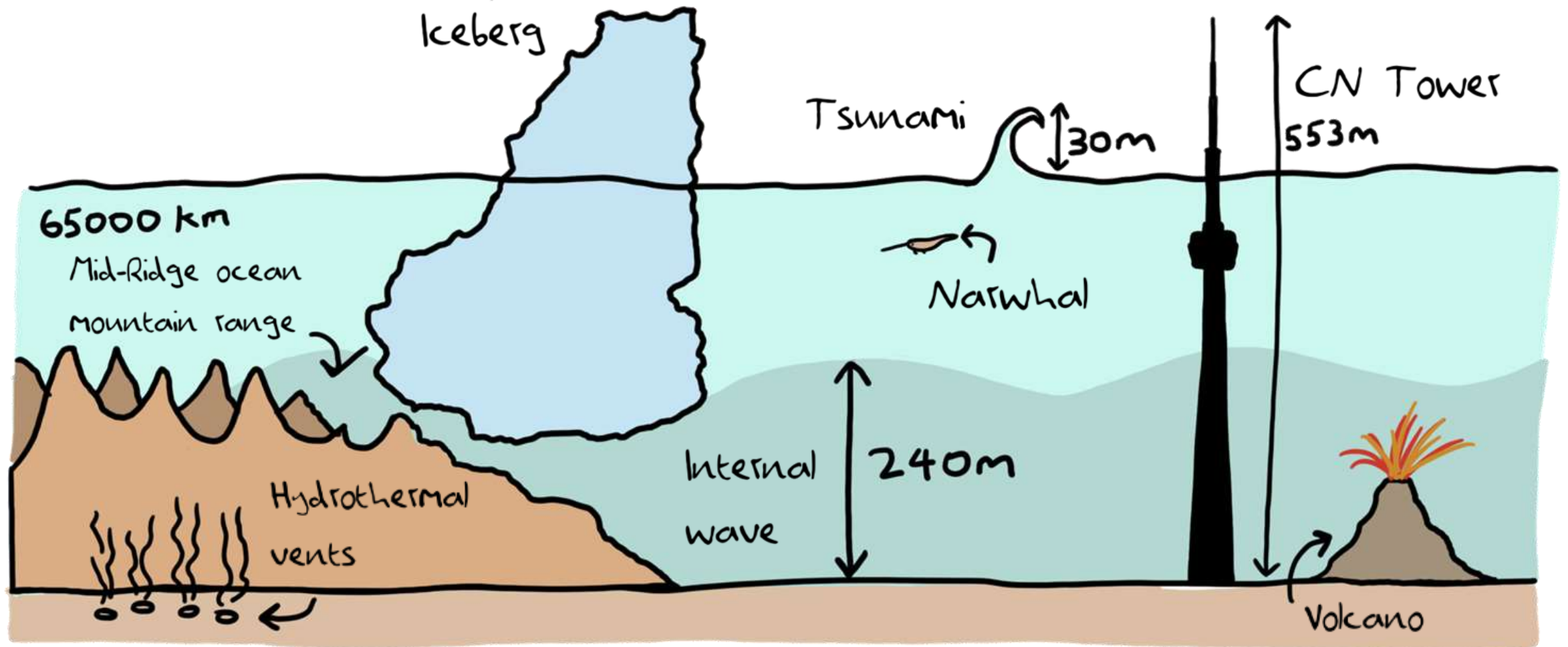
Absorbs carbon  
from the air

Millions of unknown species  
still to be discovered

More oxygen than  
the rainforests

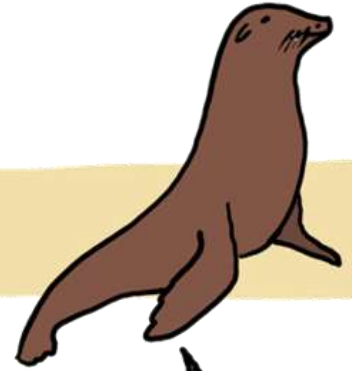


# The vastness of oceans

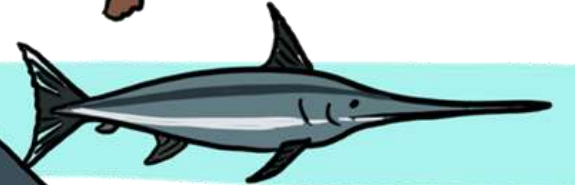
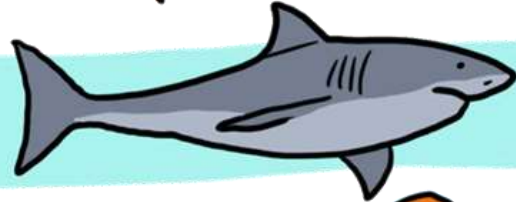


# Under the sea!

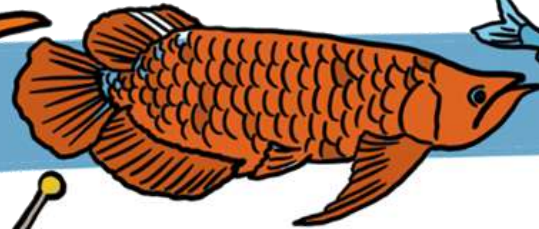
Beach/shores



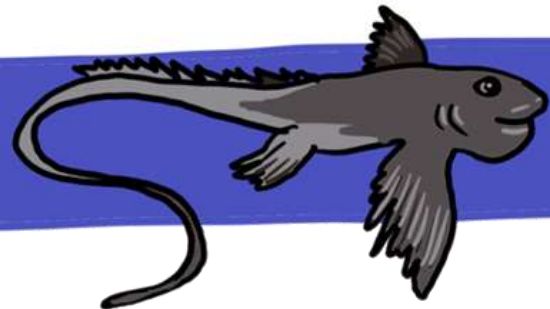
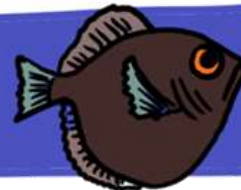
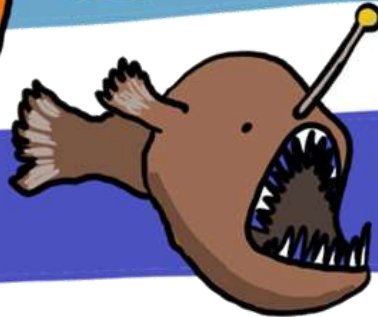
Sunlight zone



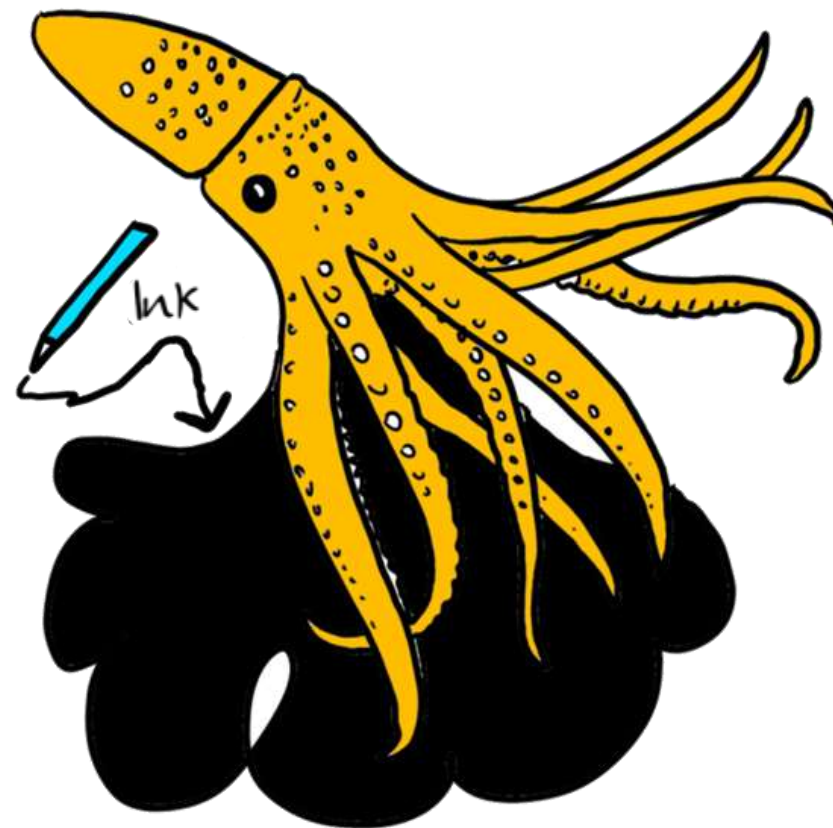
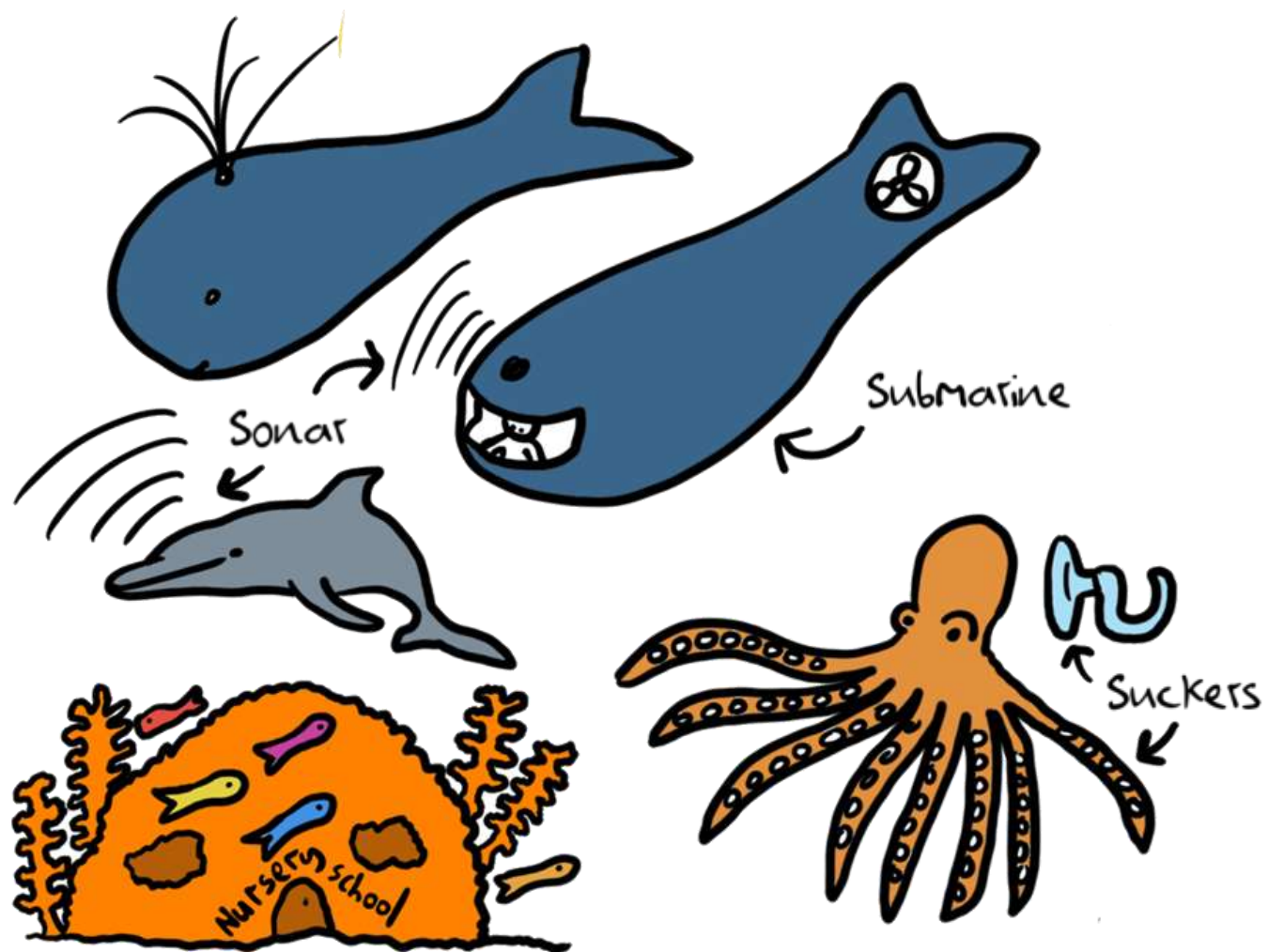
Twilight zone



Midnight zone



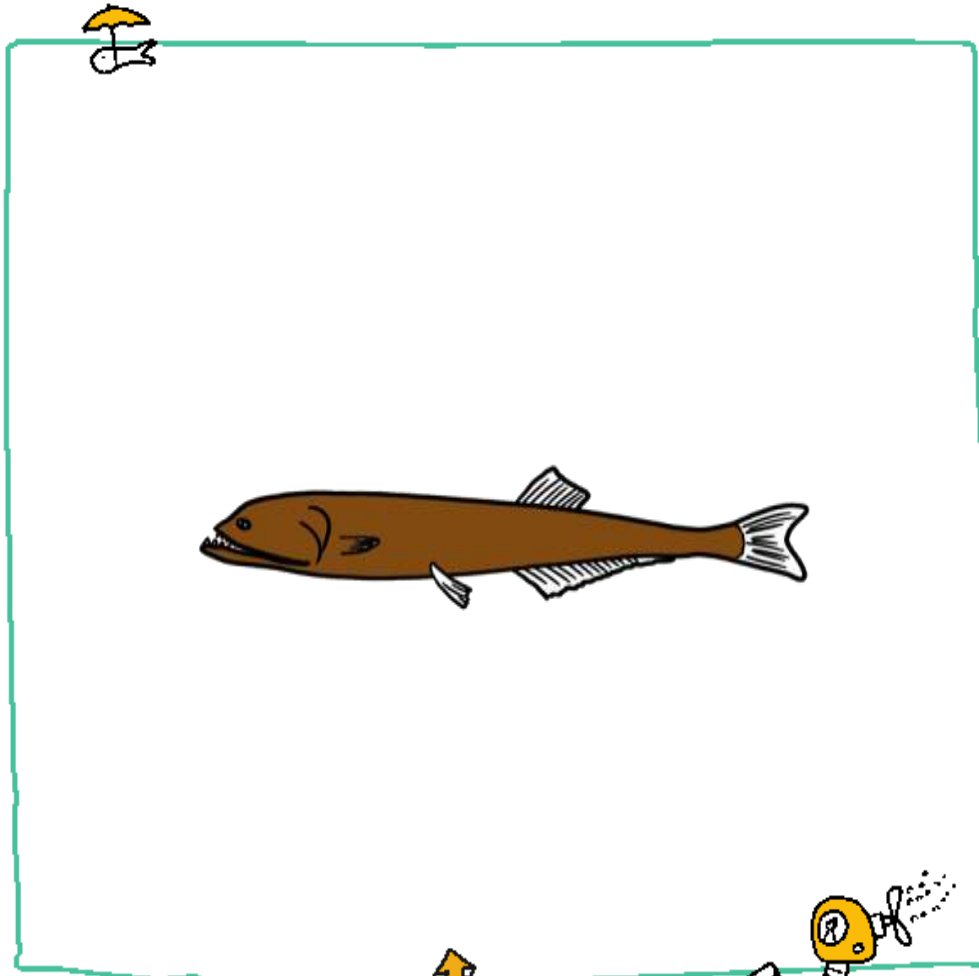
Evolution = invention in slow motion!





# Ocean Profiler

Use this profiler to capture information about ocean related creatures or other sea dwellers!



Draw your character here

I am: A Bristlemouth

I live: In the twilight zone

I eat: Plankton

What's special about me: \_\_\_\_\_

I am the size of a human finger

There are hundreds of trillions of me

I glow in the dark

Main dangers: \_\_\_\_\_

Can't survive in captivity

How you can help me? \_\_\_\_\_

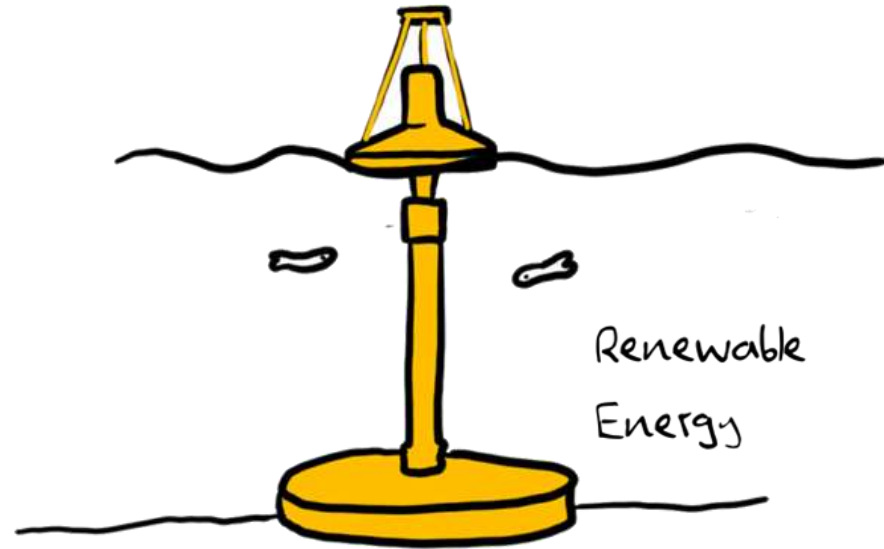
# Why we depend so much on the oceans



Food, materials  
and medicine



The water cycle



Renewable  
Energy



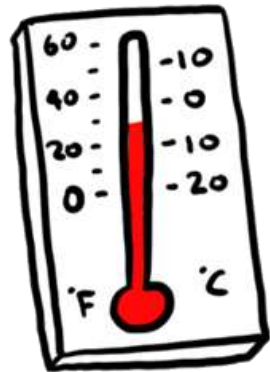
Transport and commerce



Having Fun!

# The threats to our oceans

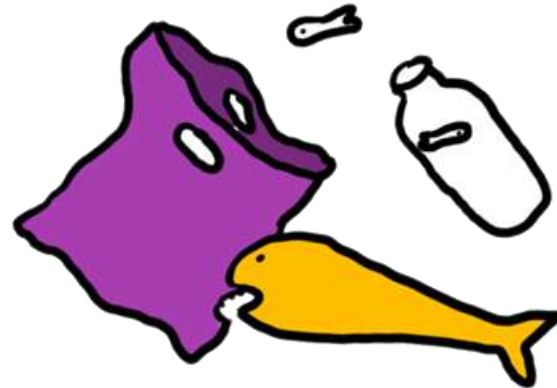
Climate change



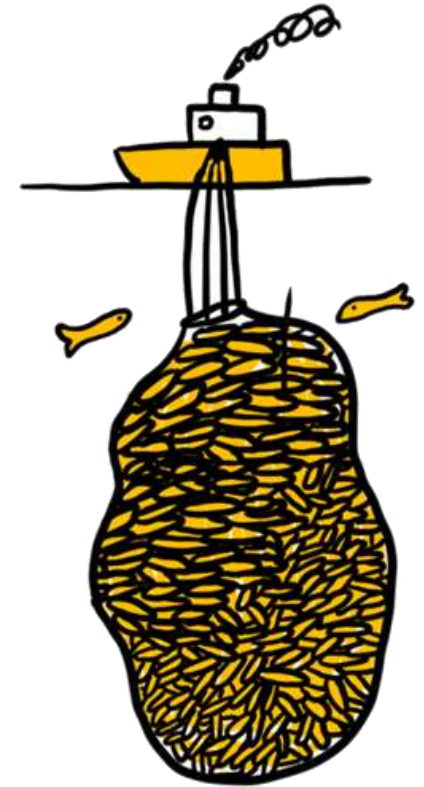
Air pollution



Plastic



Rising sea levels



Overfishing

# ...and their impact

Extreme weather



Less fresh water



Flooding



Less land



Less Food and materials

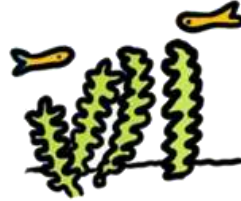


# The future we want for the ocean we need

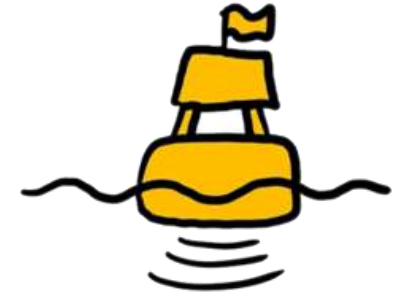


A clean ocean

A healthy ocean



A predictable ocean



A safer ocean



A sustainable  
productive ocean



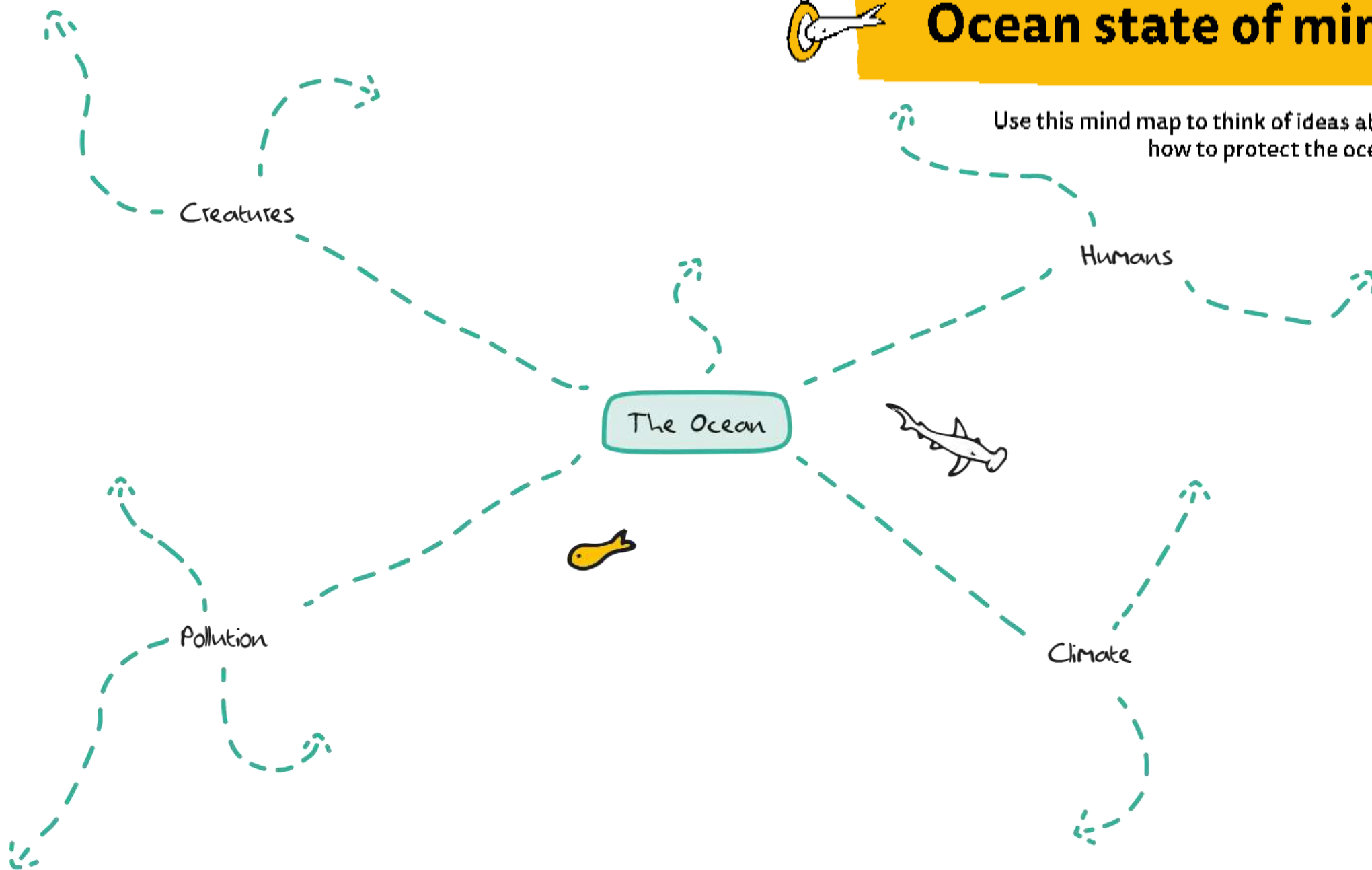
A transparent  
ocean

Sustainability means maintaining the world we live in



# Ocean state of mind

Use this mind map to think of ideas about how to protect the oceans



# Ocean deep dive!

Use this sheet to explore specific ideas or features of the ocean in discussion or research.

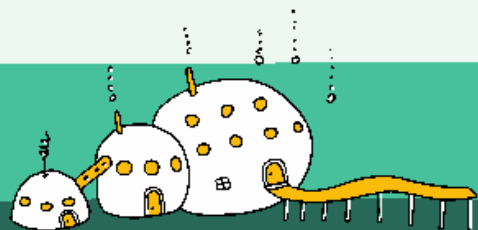
Pick one thing you are interested to explore about the ocean:

What are the threats or problems:

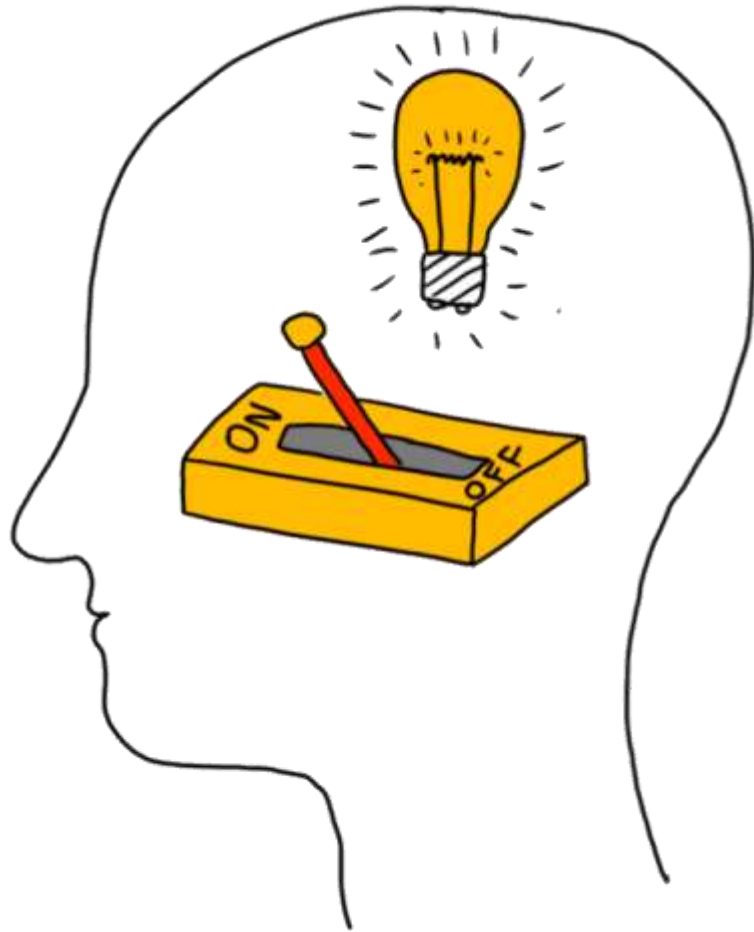
What could the future look like?

What could be done differently:

What information have you found out



# Time to turn that invention switch on



How can you help  
protect the oceans?

Time to get inventing!





# Finding ideas



Start simple



Put two things together



Break the rules!



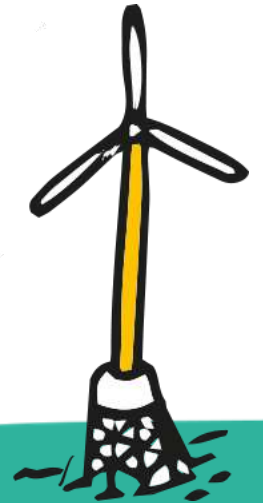
# Want to know more?

Check out our next two resources on the Oceans

1. A world of pollution
2. Oceans: Climate power (release date 8 June 2020)

And some other useful links!

- [United Nations Decade of Ocean Science](#)
- [Ocean Literacy portal](#)
- [Fisheries and Oceans Canada](#)





In partnership with



In collaboration with

