SCIENCE CAREER ADVENTURES

Examples of Venomous Ocean Animals

Lots of venomous animals live in the ocean. Take a look at these examples:

Pufferfish

Pufferfish produce a very toxic poison. One adult pufferfish has enough poison inside of it to kill 30 humans! Predators that try to eat the pufferfish are almost always killed by the poison the pufferfish carries.

Striped Pyjama Squid

The striped pyjama squid has specialized glands in its stomach that produce poisonous slime that will harm anything that tries to eat it. The striped coloring of the pyjama squid warns predators to stay away!

Yellow Boxfish

The yellow boxfish has armor plated skin! If it gets scared, it can release a very powerful toxin that can kill nearby fish. The yellow boxfish has to be really careful though, because if it doesn't leave after releasing the toxin, the yellow boxfish can be killed by their own poison!

Currents

Ocean waters temperatures are usually similar to the air around them. For example, locations that are warm, like those near the equator, have warm water.

This happens because of how light hits a round object. Imagine using a flashlight and shining it on a baseball. The part that has the light shining directly on it, gets the most light and heat energy. Because the sun is shining directly at the equator, it is the warmest. Other areas, like the poles, don't receive as much direct sunshine as the equator does. Because other areas don't receive as much direct sunshine, the Earth is unevenly heated, which creates winds!

Currents of wind move at different speeds and in different directions. This moves warm air from the equator in different directions all over the Earth. Take a look at the map of currents below to see how air moves around the planet.

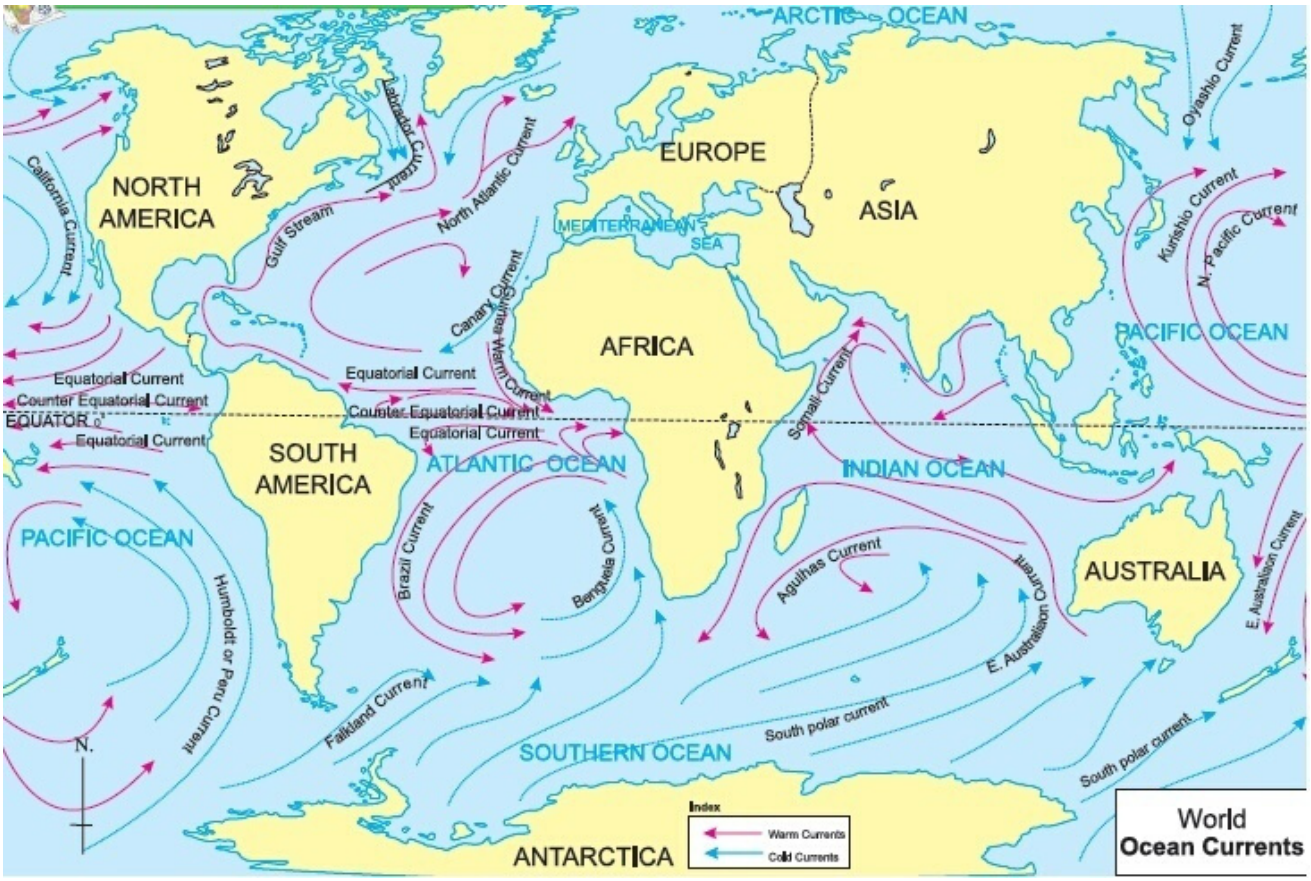

Image courtesy of: Brainly.in

Creating a Youtube Video

Follow the steps below to create a Youtube video that teaches kids about ocean currents.

Step One: Make a Model

In this step, you will create a model of ocean currents that you can use in your video.

- The map below shows the currents in the ocean.

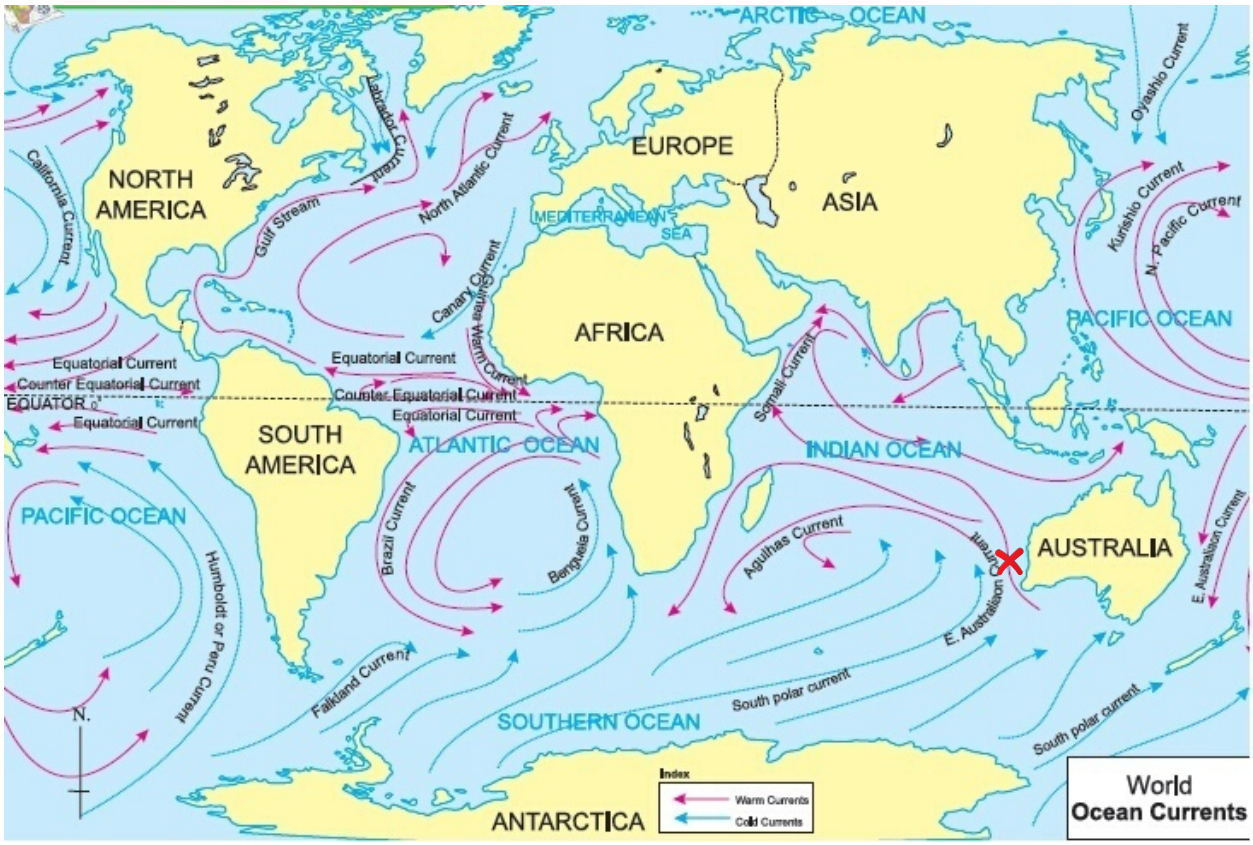

Image courtesy of: Brainly.in

Imagine that a rubber ducky was placed into the ocean at the X marked on the map.

- Use a marker to draw the path that your rubber ducky will take through the ocean. So long as your path travels along ocean currents, your rubber ducky could go anywhere!
- Notice how if you follow a warm current, you will end up in a location with a warm climate. In the same way, if you follow a cold current, you will end up in a location with a cooler climate. This is because the movement of water and air in a location often dictate the climate in the area.

Unequal Heating of the Earth

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Step Two: Write a Youtube Script

It's time to write the script for your Youtube video! Your script should include the following components:

Attention Grabber:

You need to get the attention of your audience at the beginning of your video! Try sharing an exciting fact, asking the audience a question, or even telling a joke about currents or climate. Be creative!

Introduction:

You'll need to introduce the idea of ocean currents and their effect on climate. Explain how currents move warm or cool water or air around the Earth.

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Show Your Model:

You should include a demonstration that tells viewers about how ocean currents can move water, and objects in the water, like a rubber ducky! You should talk while you show your demonstration, so that people understand what they are seeing!

Conclusion

Make sure you provide a fun ending to your video! The conclusion should summarize what people learned in the video.

Step Three: Record Your Video

Use a smartphone or tablet to record your Youtube video! Use your script to make sure you include all of the necessary parts. But don't stare down at your script the whole time!