

Prize Winner

Models & Inventions Year R-2

Isha Wechalekar Aayana Butt Cedra Sawat

Wilderness School







Global Cuarming and Sea Level rise

The project shows a model of Sea Level Rise alse to Global Warming. The project is made up of three parts:

Label 1 Shows the Main Causes of Global Warming like deforestation, gas emission from coal powered vehicles burning fossil feel like

2. Part 2: Container marked as

Label 2 displays the melting of glaciers and ice shelf because of tobal warming.

3. Part 3: Simportainer marked as Label 3, Shows a sea side scenery with beach, cake shop, hotels and the sea. of global warming, depicted by the container marked Label 2.

The project is made using recycled polystyrene foam, paper, sand and pebbles?

Water colour enamel paint and toothpicks. Hot glue pro glue and silicone was used to glue the items. Two plastic A containers are used to retain and pump water for showing the change in sea level AM from global warming. A 12V battery is used to the submersible pump with alligator cables

This Project aims to show that everyday familiar place like beaches will disappear because of global warming That it will affect our everyday life and the way people live.

The project was conceived and developed by:

Aayana Butt Isha Wechalekar Maryam cedra sawad

Parents collaborated in bringing ideas together, cutting polystyrene poam and in obtaining materials 1sed.

Global Warming and Sea Level Rise: Interactive Model

Year 2R, Wilderness School (August 2020, Oliphant Science Project) By: Aayana Butt, Isha Wechalekar, Maryam Cedra Sawad

- Platform Warming; (Label 01) showing main causes of Global
- Container (Label 02) showing ice capped mountain and
- Container (Label 03) showing beach and coastal town;
- Cardboard base with markings for placing containers:
- Submersible water pump with plastic hose;
- Battery (12V) with alligator cables (red and black)

Instructions for setting up interactive model:

- Place Cardboard base on a flat surface;
- Place platform (Label 01), Container (Label 02), on the Cardboard base; Container (Label 03) and Battery on the areas marked
- side) into Container (Label 03); Fill in water up to "Normal Sea Level" (marked on the
- Fill up water into the opening on top of the ice capped
- 6 on Connect capped mountain containing water; Insert Submersible Pump into the opening of the ice "red" alligator clip to the red tip on the
- Connect "black" alligator clip to the black tip on
- .7
- mountain and glacier melts and increases sea level and Now the Model is ready to demonstrate how the ice capped floods beach and coastal town;

- Place the Hose end from the Submersible Container (Label 03) and hold it in place: Pump
- 10. Connect "red" marked "BLACK" alligator cable to the wire from the Submersible Pump Submersible Pump marked "RED", and connect alligator cable to the wire from the
- 11. Now the water created from the melting ice is flowing flooding the beach and the coastal town; into ocean and increasing the sea level. This is
- 12. Once the rising water reaches the streets of the Battery; coastal town, disconnect the alligator clips from the

capped mountain where the Pump was inserted before. in Container (Label 03) and switch the Hose end into the ice mountain in Container (Label 02) and put it in the corner slot To reset the Model, remove Submersible Pump from ice capped

Pump will now pump out into the ice capped mountain, all the excess water from Container (Label 03). When the water level disconnect the alligator clips from Battery. Connect the alligator clips to the Battery. The Submersible in Container (Label 03) reaches "Normal Sea Level"

Swap the Submersible Pump and Hose to where they were before.

Now the Model is ready for demonstration again.