

# Note to Teacher: Climate Change Affects Sea Life Too

## Background Information

Our Climate is changing because humans have increased the amount of Greenhouse Gases (GHGs) in the atmosphere. Greenhouse Gases are actually necessary, as they help to keep the earth's surface warm by trapping the earth's heat (the greenhouse effect). Without this warmth the earth would be unbearably cold. These Greenhouse Gases (GHG's) include Carbon Dioxide (CO<sub>2</sub>), Methane (CH<sub>4</sub>), Nitrous Oxide (N<sub>2</sub>O) and Ozone (O<sub>3</sub>). The problem is that their concentrations have increased dramatically in the last century due to human activity. When we burn fossil fuels to provide electricity for our homes and businesses or when we cut down trees these actions release Carbon dioxide in the atmosphere. This is making the earth very, very warm (global warming) and in turn causing our climate to change.

One impact of climate change is that sea temperatures have become warmer. This causes damage to Coral reefs, which provide natural habitats for fish, while preserving and protecting our shorelines. The damage to Coral reefs as a result of Climate Change is known as Coral Bleaching.

## About this Activity Sheet

This exercise is targeted to children between the ages of 4-5 years. It allows children to make choices that are either good or bad, using a maze.

## What Skills are developed?

**Eye-hand coordination:** As children draw a line from COREY to the Reef, they are developing eye-hand coordination.

**Problem-solving/Making Choices:** From COREY to the Reef, there are different pathways. Children will try different paths until they find the correct one.

**Left to right progression:** When children read and write, they move from the left to the right. As children draw the line from COREY to the Reef, they are moving from left to right.

**Directionality:** Children also learn directionality, and concretize the concept of direction. For example, when they travel from home to school, they are learning about 'to' and 'from'...hence directionality.

## Additional Sources of Information

1. GOJ/ EU/ UNEP Climate Change Adaptation and Disaster Risk Reduction Project Brochures
  - Climate Change: Let's Change the way we treat our Coasts and Beaches
  - Climate Change: We have to Change
2. GOJ/ EU/ UNEP Climate Change Adaptation and Disaster Risk Reduction Project Fact Sheets  
<http://myspot.mona.uwi.edu/physics/csgm/climate-resources>



# CLIMATE CHANGE AFFECTS SEA LIFE TOO

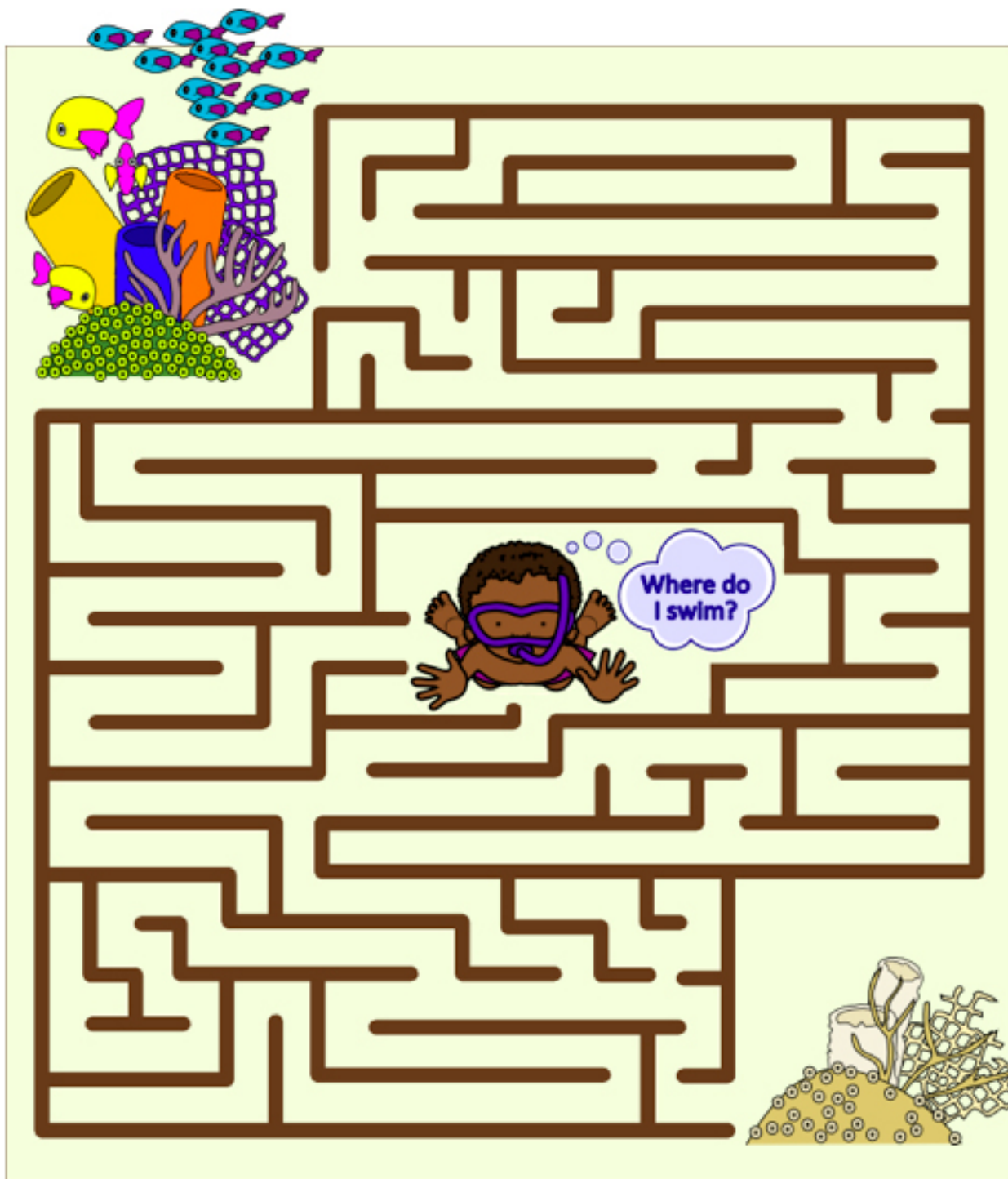
## ACTIVITY SHEET

Name: \_\_\_\_\_

Age: \_\_\_\_\_

As our climate changes, it gets hotter and our coral reefs are bleached and become unhealthy. Corey likes to swim and wants to swim to a healthy reef not affected by climate change.

### Where Should Corey Swim?





*Climate Change-We have to change!*

# CLIMATE CHANGE AFFECTS SEA LIFE TOO

## ACTIVITY SHEET

Name: \_\_\_\_\_

Age: \_\_\_\_\_

What will Corey's plant look like at the end of this climate journey? Circle the correct one.

### Where Should Corey Swim?

