



## Lesson 8 Climate Change (December 19 - 25) At Home Activity

Rich is now journeying through the Arctic where the impact of Climate Change is most severely felt.

Help your child perform this easy experiment that reflects what happens as the ice melts as our climate changes.

### **Melting Ice Experiment Materials:**

Two clear glasses

Material to suspend ice cubes over glass of water, such as cheesecloth or perforated plastic wrap

Ice cubes

**Step 1:** Fill both glasses with water to half full. (Using warm water will speed the results.)

**Step 2:** Add two to three ice cubes to one glass and mark the water level on the outside of the glass.

**Step 3:** Mark the water level on the other glass.

**Step 4:** Take the same number of ice cubes that you used in the first glass and suspend them over the water in the second glass. For example, you can stretch cheesecloth or perforated plastic wrap across the lip of the glass and place the ice cubes on top. Make sure that the meltwater from the ice cubes is positioned to drip inside the glass. Predict what will happen when the ice cubes in both glasses melt.

**Step 5:** Observe what happens. If you haven't used warm water to begin with, you may want to use a heating device such as a hair dryer to speed the melting process. Once the ice in both glasses has melted, check the water levels. Describe what has happened in both cases and relate each case to melting ice at the poles.

Have your child discuss the importance of rising water as the polar ice caps melt. What will happen on land?

### **Where's Rich?**

- Preparation: Print out "World Map" and "Boat" PDF. Cut outline of boat from paper

Find Rich's current location at <http://vg2016.sitesalive.com/en/daily/position/>. Have your child place their preprinted boat on the preprinted map of the trip pointing out where Rich is. Ask your child what types of decisions Rich might have to make in the upcoming week. What happens if there is a storm at sea? How will that impact Rich's decisions?



## Lesson 9 The Midpoint (December 26 - January 1) At Home Activity

Point out to your child that at the midpoint in a journey or challenging experience, people can plan ahead with two different perspectives. They can look back and think of things they would have done differently, or they can look ahead and think of ways they will act differently based on what they have learned during the first part of their journey.

### View Rich's journey so far with your child:

Go to the Vendee Globe sailing route map (<http://tracking2016.vendeeglobe.org/gv5ip0/>). Point out that some boats sailed closer to the African coast than the South American coast. Click on Rich's picture on the Leader Board to highlight Rich's route. Ask your child why they think Rich chose the route he took. How could Rich decide whether the danger was greater to sail through icebergs that he could possibly hit or sail through a high traffic channel where he could get hit by other boats?

Making predictions based on past experience and what you think might happen in the future is an important element of sailing.

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