

# Classroom Activity

## 10 Big Question: How can we reduce our reliance on fossil fuels?



### Icy Water

Prove to yourself that when ice melts the temperature of the water doesn't rise until all the ice has melted.

#### Things you need:

A styrofoam cup with a lid  
A thermometer that goes down to  $-5^{\circ}\text{C}$   
Some ice

#### What you do:

Take some ice directly from the freezer and put it in the cup. Quickly put the lid on and push the thermometer through the hole where the straw would normally go.

Check the temperature of the ice.

Leave the cup with the lid on, on the kitchen bench and keep an eye on the temperature as the ice melts. When does the temperature start to go up?

How long did it stay at (or close to)  $0^{\circ}\text{C}$ ?

This classroom activity was suggested by Rachel Crees – PhD student in the School of Chemistry & Physics, University of Adelaide.