

(Edited version for public review)**1.3 Act 3****Cooling Off**

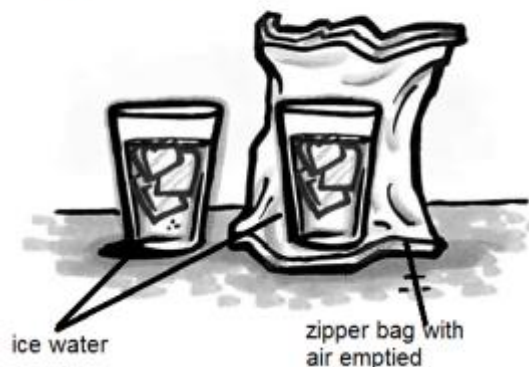
Each of the following pictures demonstrates different cases of systems, which are cooling. Use the materials available to set up each system and record your observations. Please negotiate with your group to interpret the meaning of each case, and then ask other groups or your teacher if you are unsure about what to investigate.

Next to each diagram, briefly describe how you set up the experiment (including if/how you made sure to construct a “fair” test, and any considerations or concerns your group had) and also your observations. Recall that these can be recorded using multiple representations; use the method that makes sense to your group.

If your group finishes early, conduct your own experiment involving drying off!

Experiment 1:

Compare the outside of the two cups
5-10 mins after sealing the second cup
in the zipper bag.



Set Up (Considerations/Concerns):

Observations:

Experiment 2:

What happens to the
inside of the top cup?



Set Up (Considerations/Concerns):

Observations:

Experiment 3:

Compare the two top cups after 2-3 minutes. Wipe off any melted ice water from the first cup. It may help to have a magnifier.

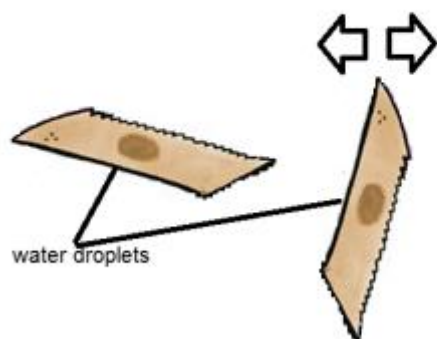


Set Up (Considerations/Concerns):

Observations:

Experiment 4:

Hold one paper towel still and wave the other back and forth for ~30 seconds. Observe the water spot. Is it the same for both paper towels?



Set Up (Considerations/Concerns):

Observations:

Experiment 5:

(Additional materials available in members' resources)