Leaves on trees and plants are really complex, not only do they capture sunlight to use as food, but they also can "sweat!" As water and nutrients move through trees from the roots in the soil up to the leaves, that water "sweats" from the plant in a process we call **TRANSPERSION**. With a few items, you can see how much leaves sweat!

**The Experiment**
Select the plant you would like to test and locate a branch with leaves on it. Carefully slide the branch into the plastic bag, make sure not to break it off of the tree! Secure the bag to the branch as best you can and close the opening with twist ties or tape. Leave the bag on the branch for a few hours during the day or overnight. Vapour from the leaves will collect along the inside of the bag so when you come back to check it, you'll probably notice droplets on the plastic or collecting in the bag's corners.

**Materials**
- plastic bag
- twist tie/tape
- a tree or plant

Want to experiment further? Try these out!
- Does a tree with needles "sweat" more than one with leaves?
- Is there a difference if the plant is in the shade or bright sunlight?
- Does the temperature of the day make a difference?
- Do flowery plants release more moisture than trees?