

Fascinating Forests

Instructions:

- Look for a healthy bush or tree.
- Find a leafy stem at the end of a branch.
- Blow into your bag to make sure it doesn't have any holes in it.
- Put the pebble into the bag and fit the bag around the leaves and stem.
- Tie the bag tightly to the stem with the twist tie.
 - The pebble should make the bag hang down.
- Check the bag 24 hours later. It will have water in it.
- Remove the bag and carefully pour the water into the measuring cup.
 - If there is too little water to measure by cup, use the spoons.

Math challenge: Divide the amount of water by the number of leaves on the stem. This will give you the amount of water that each leaf transpired. For example, if you have 50 ml of water and 5 leaves, it means that each leaf has given off 10 ml of water ($50 \text{ ml} / 5 \text{ leaves} = 10 \text{ ml}$). Now count the number of leaves on the bush or tree. Multiply that number by the amount of water given off by one leaf to get the amount the whole bush transpired in a day.