**Extension Activity**

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| **Extension Activity Title:** Water Cycle in Plants  | **Duration:** 30 minutes |
| **Introduction:**  |
| Students will learn about transpiration from the water cycle* Suitable for grade 5
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| **Materials:** |
| * 3-4 clear plastic bags
* 3-4 elastic bands, or clothes pins
* Clipboard
* Timer
* Sunny Day
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| **Predictions:** |
| * Ask the students to predict what will happen during this experiment, have them write a few sentences in their journals or discuss as a class
* Have students create their own definition of transpiration using their own words
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| **Activity Set-up** |
| * Bring the class outside near trees and shrubs (can be in school yard, or a local park near the school grounds)
* Have students wrap up a few branches with leaves in clear plastic bags in a sunny spot and in a shady spot
* Try this experiment with different types of trees or shrubs
* If time permits, have students play outdoors for 20 minutes, if not, time the experiment for 30 minutes to come back to see the results with the class
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| **Activity Wrap-up:**  |
| Have students write a journal entry about this experiment* What did you notice that took place in the bags that were in the sunny spots and in the shady spots?
* Did you see the water appearing?
* Can transpiration occur without evaporation?
* What would happen if evaporation stopped?
* What role do plants play in the water cycle?

Tell students that plants absorb nutrients and water through their roots. The water flows through the veins of a tree like water in pipes reaching every leaf on every branch. Transpiration is a process that is similar to evaporation, it consists in the loss of water from parts of plants.  |