**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 | |
| **Materials:** | |
| * 3-4 clear plastic bags * 3-4 elastic bands, or clothes pins * Clipboard * Timer * Sunny Day | |
| **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 | |
| **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 | |
| **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. | |