

Teacher Training at the U.S. Botanic Garden



The U.S. Botanic Garden offers special workshops throughout the year for teachers on how to use

of the classroom and engage students in plant-based learning.

Please see our [Calendar of Events](#) for upcoming programs, such as:

How Plants Work: A Workshop for Teachers

This workshop is usually geared toward either elementary or middle school teachers looking for new ideas on how to teach students about plants, the environment, and plant-based learning. The *How Plants Work* curriculum is used as a guide for this workshop to explore photosynthesis, plant parts and adaptation.

HOPS (Hands On Plant Science) Institute

Each summer, 15 teachers are selected to participate in a 2-day immersive Hands On Plant Science (HOPS) workshop. Contact USBG Children's Education Director, [Coykendall](#) for more information.

HOPS Teacher Institute Program

Description: Day One will cover 8 modules. We will learn all about water, its importance to plants and plants importance to water, the importance of water to the health of our local bodies of water. We will use microscopes, test water for temperature, PH and dissolved oxygen, learn about watersheds, and build a watershed map. The afternoon is all about how plants work and photosynthesis. Participants will perform plant cuttings and see how oxygen leaves the plant and how plants take up carbon dioxide, learn that sugar really does happen in the leaf using refractometers, create art using the power of the sun and make seed balls. Day Two explores plant diversity in the morning. Participants will have a chance to settle into the quiet of the National Garden and watercolor, use compasses to make sundials and microscopic plants. Participants will dissect flowers and learn how pollination works while we keep our eyes out for the many pollinators in the Garden. The afternoon is spent together with an investigation during which we explore seed dispersal, pollen identification using microscopes, learn that nectar differs from flower to flower and have different pollinators, and that soil is not dirt.

Dates: June 19-20, 2017

Time: 9:00 am - 5:00 pm

Applications due by April 30, 2017

Application Process with Principal Support

HOPS kits and Certificates of Participation will be provided upon completion: 14 PLUs

D.C. Teachers Night

The U.S. Botanic Garden and the DC Environmental Education Consortium host an event for DC educators that can help get students learning outside the classroom and into the classroom. Learn about student field experiences, professional development opportunities and leave with new hands-on activities and take-away

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