

GARDEN NEWS

Summer 2014

Welcome back to school! And to a garden bursting with botanical surprises! Big thanks to the parents and students who volunteered their time to keep the garden watered all summer long. Also big thanks to those who helped get the garden ready for school by weeding, mulching, painting, pruning, and staking... Special thanks to Carina Frantz for constructing and tending the amazing **living willow fort** all summer long, now fully covered in flowering vines.

Speaking of vines, the **new vine structure** in the courtyard (built by Paul & Theo Henderson) is a sight to behold. Walk through the two triangular sides and dare to stare up into the tall canopy. Prehistoric-looking Dinosaur Gourds (*Lagenaria siceraria*) Egg Gourds (*Cucurbita pepo ovifera*) so egg-like you'd think they had yolks, Yard-long Beans (*Vigna unguiculata* subsp. *sesquipedalis*) that resemble creepy Halloween fingers, purple Pole Beans (*Phaseolus vulgaris* 'Purple Pod') - who knows what else is lurking in this jungle! Before & after photos below: spring to (almost) fall.

Two requests: 1) Please **keep garden gates closed** when walking through. This summer the deer munched a lot of beans, sunflowers, tomatoes, and amaranth (to name but a few!) and though it's an important lesson to learn, it's a shame when student work gets eaten before it can bear fruit. 2) Please also **share photos of students** using the new Ed Shed this fall. In order to fulfill and receive new grants, the garden needs to document how projects impact learning and we need your input to be able to do that. The garden is 100% funded by private donations and grants and it runs 100% on volunteer hours of labor. Please **share successful lessons**, projects, and activities classes do in the garden by e-mailing: info@growinghaldane.com.



Left to right: vines sprouting, climbing, and reaching the top!

The PTA will be hosting their annual **Back-to-School Picnic** on Friday, September 12th this year. We hope teachers, parents, students and staff will also stop by to **tour the garden** and try our ABC scavenger hunt! Here's a sneak peek at just a few of the many things you can discover in the garden this fall...

ABC Garden Scavenger Hunt!

For each letter, find one item represented in the Haldane Garden, and check it off your list.
(Find more if you like a challenge!)

- | | |
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| <ul style="list-style-type: none"> <input type="checkbox"/> Amaranth, Aphid, Avocado, Asparagus, Ant, Angiosperm, Anther <input type="checkbox"/> Banana plant, Butterfly, Bean, Bract, Basil, Broom <input type="checkbox"/> Compost, Cotton, Cucumber, Coffee, Corn, Cardinal Vine, Cultivator <input type="checkbox"/> Dahlia, Dinosaur gourd, Dicot, Dirt, Dead plant, Deer Damage <input type="checkbox"/> Eggplant, Edamame, Echinacea, Elm, Egg gourd <input type="checkbox"/> Fish, Four o'clock Flower, Fern, Filament, Fescue <input type="checkbox"/> Geranium, Gladiola, Ginger, Grass, Garlic, Gymnosperm, Grasshopper <input type="checkbox"/> Helenium, Heart Pea Vine, Hops, the letter H, <i>Helianthus annuus</i> <input type="checkbox"/> Insect, Ivy, Iris, Iridescent, Impatiens <input type="checkbox"/> Jerusalem Artichoke, Jewel Weed, Joe Pye Weed, (creeping) Jenny, Jumping bug <input type="checkbox"/> Kalanchoe, Kingdom Plantae <input type="checkbox"/> Lemon Cucumber, Lamb's Ear, Ladybug, Lettuce <input type="checkbox"/> Magnolia, Mum, Monocot, Money plant, Mulch | <ul style="list-style-type: none"> <input type="checkbox"/> Needles, Nasturtium, Native plant, Ninebark, Nutsedge <input type="checkbox"/> Oregano, Oat, (Egyptian topsetting) Onion, Ovary <input type="checkbox"/> Pineapple, Potato, Pistil, Pitcher plant, Phloem, Pill bug (roly poly), fall Plumbago <input type="checkbox"/> Quinoa, Queen Anne's Lace, sQuare stem, sQuash <input type="checkbox"/> Rudbeckia, Rose, Rice, Rain (barrel), Rake <input type="checkbox"/> Sorghum, Sage, Sassafras, Spider, Stamen, Stigma, Seed, Shovel, Shed <input type="checkbox"/> Trellis, Tomato, Taro, Tree, Turnip, Twig <input type="checkbox"/> Umbelliferae (umbrella shaped flowering plants like carrots, dill, parsley) <input type="checkbox"/> Vines, Venus fly trap, Dr. Villanti's tree <input type="checkbox"/> Word rocks, Water, Weed, Wheelbarrow, Willow branches <input type="checkbox"/> Xylem, Xanthocarpous plant (which means bearing yellow fruits) <input type="checkbox"/> Yarrow, Yard-long bean, Yew, Yucca <input type="checkbox"/> Zinnia, Zucchini, Zgolinski bench |
|---|--|

***Phloem** is the innermost layer of tree bark, concerned mainly with transport of soluble organic material made during photosynthesis. This is called translocation. **Xylem** tissue is wood, though it is found throughout the plant. The basic function of xylem is to transport water, but it also transports some nutrients. **Monocots** and **Dicots** are two types of **Angiosperms** (a fancy name for flowering plants). The number of cotyledons found in a plant's embryo is the source of the name Monocot (one cotyledon) and Dicot (two cotyledons). The cotyledons are the "seed leaves" produced by the embryo. They serve to absorb nutrients packaged in the seed until the seedling is able to produce its first true leaves and begin photosynthesis. While **Angiosperms** have seeds that are enclosed within a fruit, **Gymnosperms** have no flowers or fruits and have "naked" seeds on the surface of scales or leaves. Gymnosperm seeds are often configured as (pine!) cones. **Anther, Pistil, Filament, Ovary, Stigma, Stamen** are all different parts of a flower.

2nd grade sunflower (*Helianthus annuus*) & Lemon Cucumber (*Cucumis sativus* 'Lemon')





Clockwise from left: butterfly courtyard view, 3rd grade Europe/Africa bed, Dr Villanti's Magnolia marker, repainted Word Garden rocks.



Mrs. Satterlee and Mrs. Pray's 3rd grade Nation Beds: Brazil (left) and China (right): pineapple, begonia, carnation, ginger, cabbage etc.

THEME BEDS

This fall: the Three Sisters Bed, Native Plants, Useful Plants, Sensory Bed, Herb Bed, Tropical & Dr. Seuss Plants, 'Bread Bed' (showcasing grains like buckwheat, millet, soy, amaranth, oats, rice, winter rye, sesame, sorghum) and the 3rd grade Nation Beds (with plants either native to or of culinary & cultural significance to Brazil, China, Africa and Europe).

Harvested garlic drying in the new Ed Shed!



Farm to School Update

Over the summer F2S planted a **tomato sauce bed** close to Haldane's cafeteria. There are tomatoes, basil, parsley, and oregano growing beautifully in a sunny bed just above the kitchen entrance. In July, we harvested several dozen heads of garlic that were planted last November in the **Garden Cafe** after school enrichment class so now we have all we need for a delicious, school-grown tomato sauce!

F2S is excited to be continuing its **farmer in the classroom program** this year. Carolyn Llewellyn will visit a different classroom each month, bringing kids out into the garden to taste, harvest and learn all about the featured vegetable of the month. The chefs will follow up her visit with a cooking class featuring that vegetable.

LOOKING at FALL...

➤The garden committee is planning another **Fall Garden Month** in October for grades K-4 and 5th this year! We'll again share grade-level lesson ideas and classes can schedule their visits online via the garden calendar at: www.growinghaldane.com. The garden's website also has curricular links to more lessons and garden activities. And if you're interested in being a **Garden Parent** for your child's class this semester just send us an e-mail: info@growinghaldane.com.

➤We also look forward to expanding use of the **Haldane Greenhouse** this fall. The greenhouse comes equipped with movable plant carts that can be wheeled in and out of classrooms. 6th grade did a fabulous job 'breaking in' the greenhouse last year and we hope other grades will experiment this year with growing plants indoors over the winter months.

BIG THANKS to...

- The continuing support and original garden start-up grants from **HSF and HHLT...**
- **Danielle and Dave McCarthy** for the ed shed grade-level cubby buckets.
- **PGC** for the generous donation from their 2014 spring plant sale.
- **Yvonne Mee** for painting the new outdoor sink and her husband **Terry Kiter** for connecting sink to spigot! And original sink donors **Steve and Mary Bates!**
- **Paul Henderson & John Hedlund** for putting together the last new raised bed.
- **Diana and Julie Geller (with Delia Starr)** for repainting the word garden rocks.
- **Peter Sanders** for donation of Dr. Villanti's Magnolia rock and **Diana Geller** for paint design!
- Our summer watering crew: **Carolyn Llewellyn, Cindy Cohen Hutchison, Chrissy Bernstein, Danielle Pack-McCarthy, Mary Ietaka, Heidi Stephens, Kathy Gordineer, Yvonne Mee, Sandy McKelvey.**

The Haldane Garden Committee is: Beth Sigler, Melany Campanile, Melissa Angier, Carina Frantz, Diana Geller, Kory Riesterer, Yvonne Mee, Carolyn Llewellyn, Sandy McKelvey, and Laurel Rimmer.

Contact: info@growinghaldane.com **Visit:** www.growinghaldane.com **fb:** facebook/growinghaldane



Big thanks to Yvonne Mee for painting the outdoor sink, which her husband Terry Kiter hooked up. Now harvested vegetables (and dirty hands!) can be washed off before going back indoors to class!