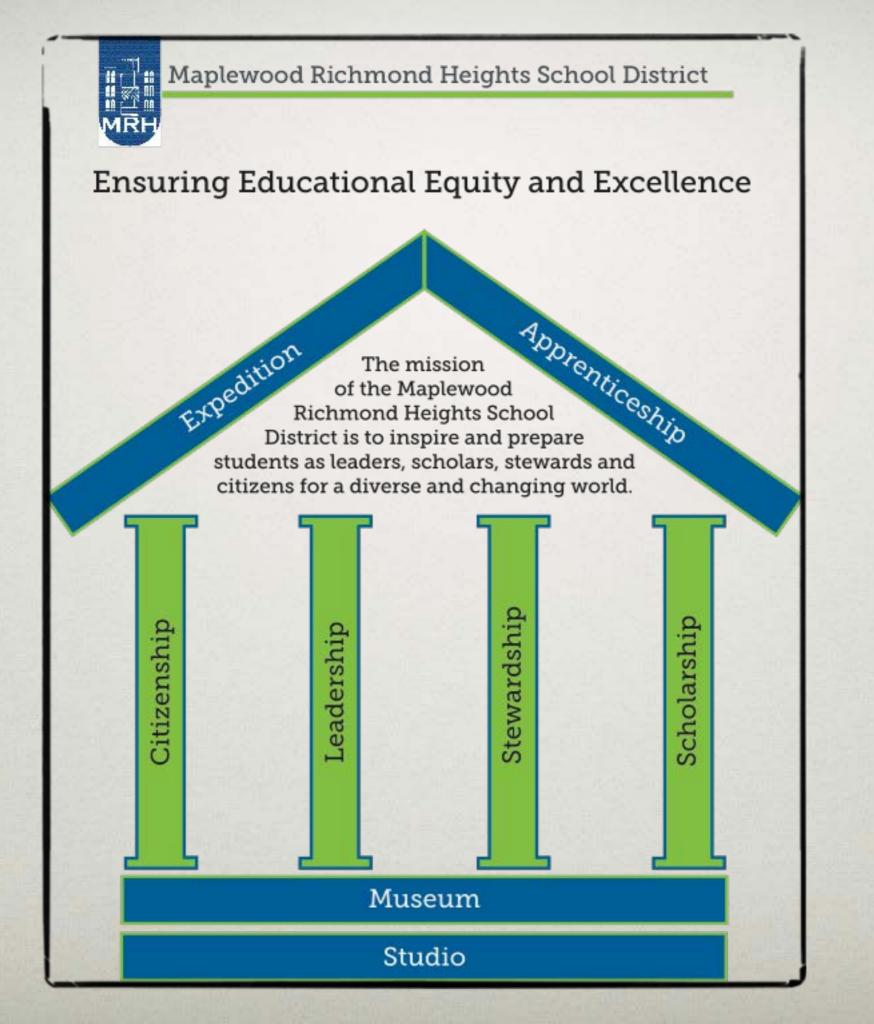


Bringing Your Curriculum to Life with Food and Gardens



Maplewood Richmond Heights Middle School

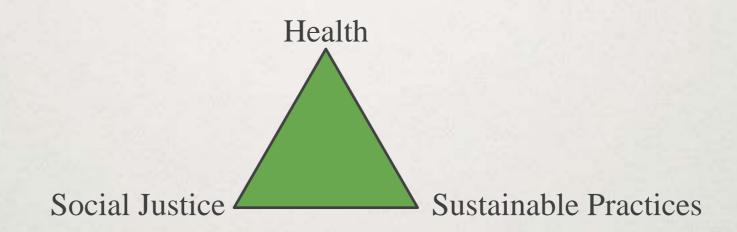




Seed to Table Curriculum

Mission:

Growing global citizens committed to building a healthy sustainable future for all.



Themes:

- Organic gardening
- Culinary arts
- Nutrition
- Animal care
- Environmental Stewardship

- Economics
- Sense of Place
- Equity
- Diversity and interdependence
- Systems and change

Gardens





- Gardens at all campuses
- Incorporated into K-8 curriculum
- High school apprenticeship option

Curriculum Integration





- Cross-curricular, project-based learning
- Integration into all subject areas: science, math, social studies, communication arts, Spanish, art, health, technology, and sustainability
- Shared use of teen kitchen

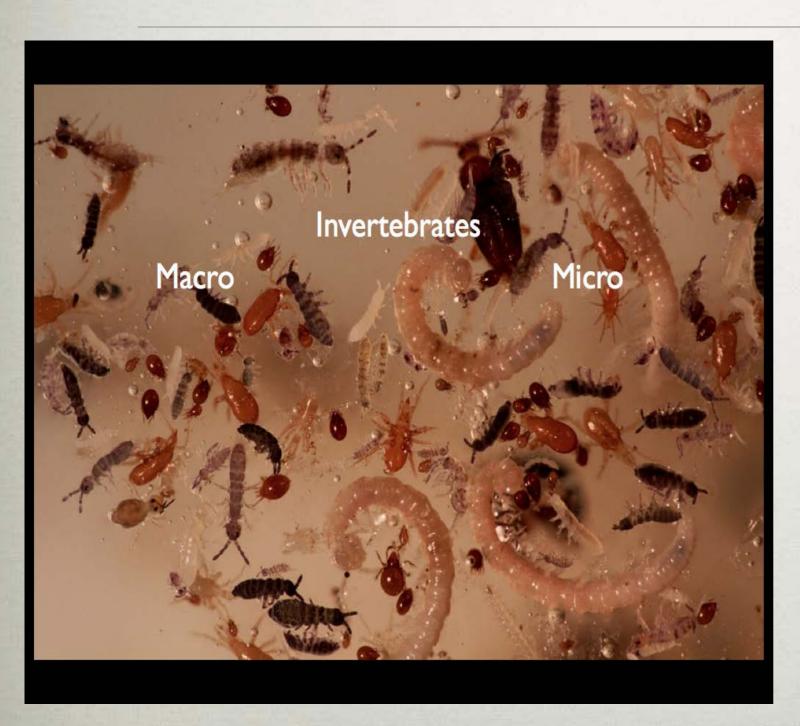
Pollinator Study



Data collection and analysis project

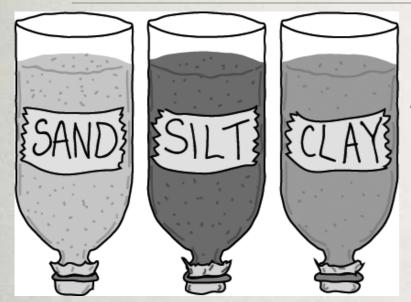
- Study long term changes in pollinator populations, relationships between plant and pollinator species, and the effect of abiotic variables on pollination activities
- Contemplative process
- Application of Data
- Real world science colony collapse disorder, pollinator interactions and biodiversity
- Novel findings

Soil Food Web



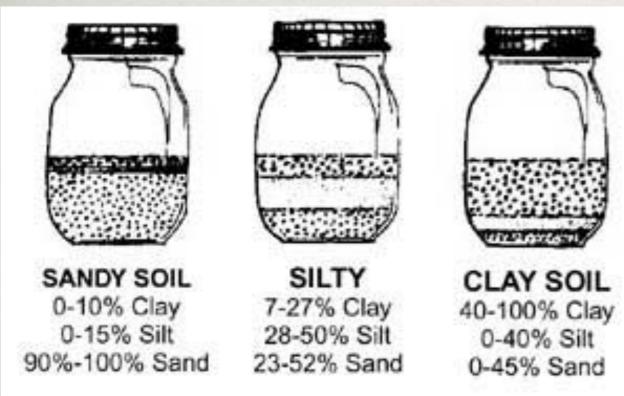
- Food web interactions
- Decomposition cycle
- Primary decomposers: the FBI
- Soil invertebrate census
- Making compost
- Soil ecosystem card game

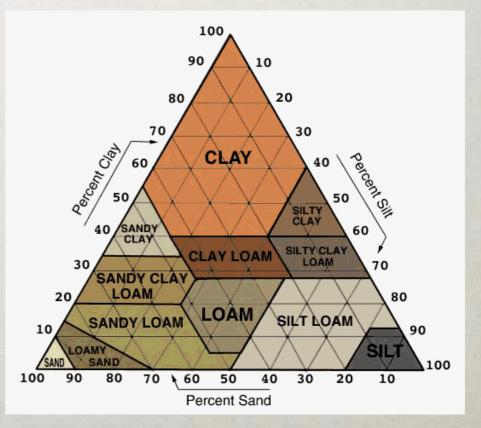
Classic Soil Science: Water and Mineral Cycles



Drainage Races (from Edible Schoolyard's *Making Math Delicious* Grade 7 pdf)

- How does particle size affect percolation?
- Calculate liters per second





Jar tests help us determine what type of soil we have and give us practice calculating percentages. We use USDA's Web Soil Survey to check our work.

Garden Geometry

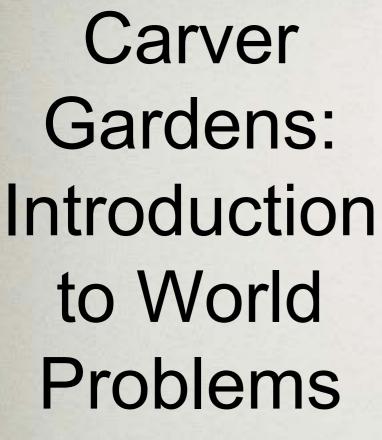
Problem: Is the capacity of our compost bin enough to generate compost to cover all beds to a depth of one inch?

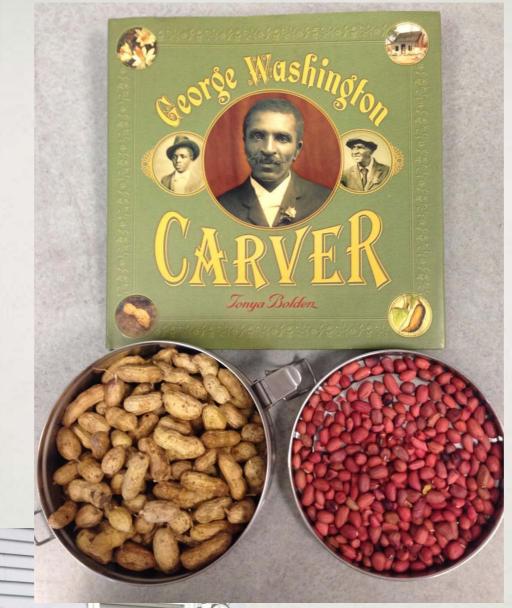


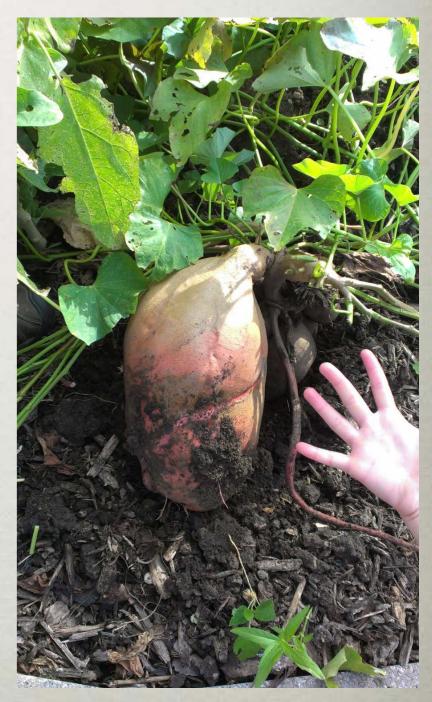
Problem: How many kale plants can we fit into a bed if they must be spaced 1 foot apart?

Geography of Plants: Native American Agriculture









Cotton: history, art, and economics







Red Foliated White Cotton is a cotton plant variation that has dark red-violet leaves, stems, and flowers, but then white cotton. Grows well in containers and in flower beds. When it first grows it will appear green but will soon turn to its actual red-violet color.

Planting: Start seeds in pots indoors 1 inch deep. It takes 7-21 days to germinate. You should plant 4-8 week old plants after the last frost. Plant the seedlings 18-30 inches apart from each other. It takes 120 days until harvest of cotton.

This packet was made in October of 2013 and includes _____ seeds. Blue Devil Keychains \$2.00



Made by MRH 8th Grade Students

All About Seeds

Eighth grade students save seeds from our gardens each year.

- Seed Folks and Good Food Revolution book study
- Technical botanical drawings
- Research growing information
- Enumerate seeds and extrapolate potential production (Billions!)
- Test effect of cell phone radiation on seeds.
- Grow MO Seed Library started by gifted class





Technology classes



HOME ABOUT SEED CATALOG RULES EMAIL US FURTHER INFORMATION



Health and Lifetime Fitness

- Garden cycle started by St. Louis University nutrition and dietetics master degree interns, with 4 monthly visits.
- Incorporated into PE/Health class.
- Spring of 7th grade, students start seeds, plant, weed, and mulch.
- 8th grade students harvest in the fall, have cooking lessons, and begin their nutrition unit in health.
- Over the winter, they study and compare food systems and save seeds.
- Food system expeditions include: Soulard Market, Whole Foods Market, and City Greens Market.



Spanish



Sustainability Elective



- Use systems thinking to approach and explore global sustainability issues
- Students engage with special projects, such as:
 - Green Schools Quest
 - Rain garden
 - O New initiatives!

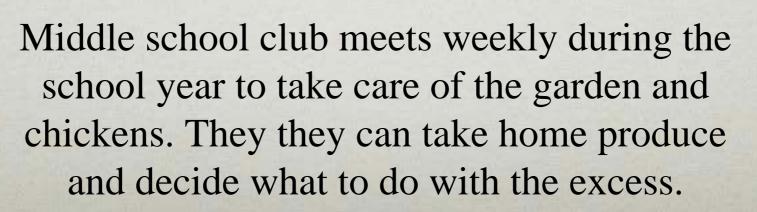






Urban Farmers Club





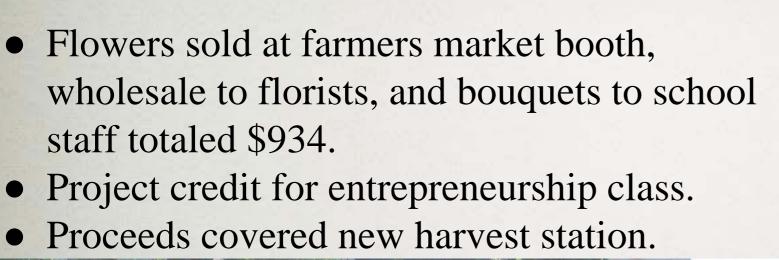




High School Apprenticeship: growing entrepreneurs



Flower Business





Community Connections





Eggs Chicks Community











BLUE DEVIL BEES



Middle School Bee Hive

Blue Devil Bees

- Outdoor Hive
- Indoor Exhibit
- Make Products
- Sell/ Market Products



Story by: Janai Robinso

assisted our lunches, taught us in class, and even created a small partnership with the rict. They aren't students t bees. For the past four little helpers have made pact in the MRH School

> eekeepers and teachers e and Kay Burbank say iends are widely used in

in urban school district, ns we don't have a lot of ortunities," said Henske. ee yard here, as you can s students an opportunity nand experience working als; they get first hand

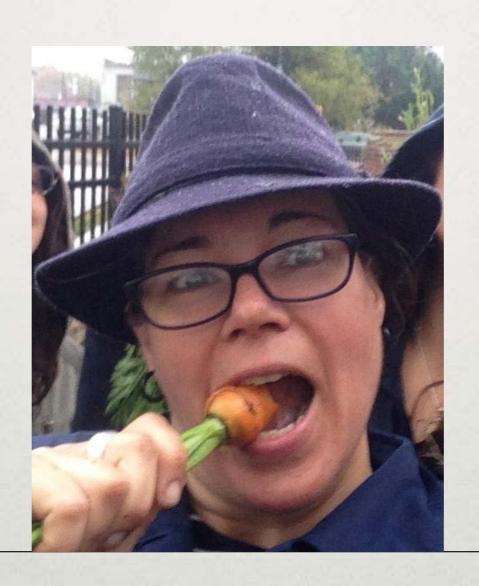


Blue Devil Bee RAW

HONEY



Questions and Contact Information



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