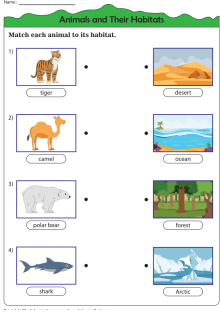


Kreiger Center Garden Curriculum Planning

<http://sageasu.weebly.com/curriculum.html>

Session	Lesson Topic(s)	Key Concepts	Book	Song	Classroom Activity	Garden Activity	Take Home Activity
1	Plant Life Cycle	<ul style="list-style-type: none"> - Sun - Water - Seedling 	How I Grow: The Story of a Little Plant Life Cycle by Natalie Anne	Seedling Song - SAGE Session 5	<p>Plant Splash Relay - SAGE Session 5</p> <p>Grow a Bean Plant in a Jar</p>	Use a magnifying glass to explore the garden and look at plants, dirt insects up close.	<p>Play this life cycle sorting game with parents to help drag the cards to the correct spots. There are different forms of templates based on the children's proficiency.</p> <p>https://wordwall.net/resource/13984922/science/plant-life-cycle</p>
2	Nutrition	<ul style="list-style-type: none"> - Nutrients - Energy - Growth 	I Can Eat a Rainbow by Olena Rose Fry bread by Kevin Noble Maillard	What's Underground What's in the ground? Vegetable Song for Kids TidiKids	Awesome Appetites - SAGE S6	Go through the Garden and talk about the types of plants and possible foods that are planted there	<p>Sorting nutrition on our plates</p> <p>https://wordwall.net/resource/37772361/nutrition</p>
3	Compassion in the Garden	<ul style="list-style-type: none"> - Positive Thinking - Reflection - Compassion - Empathy 	Grow Happy by Jon Lasser	"One Seed" by Laurie Berkner - An Environment Kids Song	<p>Make a rock garden with the kids, to make sure the garden is a happy and welcoming place for all kids.</p> <p>Have the kids take turns planting a little seedling while providing positive affirmation as it gets planted.</p>	Go place the rocks in the garden and do a little meditation - tell the kids to close their eyes and walk them through the five senses to connect the kids to the garden in a new way.	Gardening with your kids! Do a garden-related activity with your kids and show them how you take care of a plant.
4	Pollination	<ul style="list-style-type: none"> - Pollen - Bees - Reproduction 	I Am a Bee: A Book About Bees for Kids by James McDonald	The Pollination Song by Berkeley Public Library Kids Roots, Stem, Leaves, Flower by Firefly Family Theatre	Race to Pollinate by Science World	Go to the garden and search for some flowers, where flowers are, bees might be nearby!	Learn more about bees! Maybe go to your local farmers market and find a honey stand, bee pollinate different flowers, and thus create different types of honey!

5	Sustainability	- Sustainability	The Earth Book by Todd Parr		Complete the worksheets linked in the curriculum template in class!	Each class plants a seed in one of the planters, water it every day and watch it grow, see how big it can get!	Sustainability Scavenger Hunt!
6	Biodiversity	- Biodiversity - Habitat - Ecosystem - Teamwork	Over in the Meadow by Ezra Jack Keats	The Biodiversity song	Look at the different planters and what different plants and flowers are in each one. Go on a little nature walk around the Krieger center and talk about how the things you see (trees, squirrels, birds) are important for biodiversity and what their habitats are.		Match the animal to its habitat worksheet; 
7	Soil Health	- Nutrients - Filter - Health		Dirt Made My Lunch by The Banana Slug String Band	Soil Sensory Bins- Fill bins with different types of soil, sand, and compost. Let kids feel and explore the textures, and find hidden plastic bugs and worms if you have them.	Start a small compost bin with the kids and add fruit scraps, veggie peels, and leaves. Explain how these will turn into compost that makes the soil healthy.	Give each kid a small jar filled halfway with soil, then add water until the jar is nearly full. Once they are home they can shake the jar well and let it sit and watch how the soil settles into layers over a few hours - does it look different before and after dinner?
8	Sustainable Agriculture	- Crop rotation - Maintenance		Song: The Farmer Plants the Seeds		Explain the concept of the Three Sisters: corn, beans, and squash, which Native Americans traditionally planted together. The three sisters have been planted before at the Krieger Center but this time focus on the importance of crop rotation. Help the kids plant the corn seeds first. Once the corn sprouts, plant the beans around the corn	Make a Crop Rotation Wheel

						stalks and the squash around the edges. Discuss how these plants help each other grow and keep the soil healthy by providing different nutrients.	
9	Irrigation	<ul style="list-style-type: none"> - Water - Irrigation - Temperature 	Why Should I Save Water by Jen Green		Water Relay- A relay race where the kids use small cups to carry water from one bucket to another, to learn about careful water use and how irrigation works.	<p>Garden Activity: Make a small drip irrigation system:</p> <ul style="list-style-type: none"> -Take a plastic bottle and make small holes in the cap. -Fill the bottle with water and place it upside down in the soil near the plants. -Watch how the water drips slowly to keep the soil moist. 	Take Home: Make a watering chart for the week for a plant at home (could be indoors or something in their garden). Each day, let the child mark the chart with a sticker when they water their plant at home. This helps them remember to water their plants regularly, just like irrigation does in a garden.
10	Hydroponics	<ul style="list-style-type: none"> - Water - Innovation - Reuse - Creativity 			Explain the differences in how plants get the things they need to grow through soil or hydroponically. Let them be creative, and for older students split them into two teams where one talks about growing plants in soil and the other talks about growing them through hydroponics.	<p>Make a hydroponic garden for the class!</p> <ul style="list-style-type: none"> -Fill a wide tube with water and some hydroponic nutrient solution, and place it in a sunny spot. -Place cotton balls (one for each child) on the top to hold the seeds. -Put the seeds on the cotton ball, making sure it touches the water. -Observe daily to see the seed sprout and roots grow into the water. Have a chart set up by the tub so children can record their individual seed's growth. 	Let each child take home a small hydroponic kit (cup, cotton ball, seed). They can set it up with their parents and watch their plants grow in water over the next few weeks.