

Sunny Marigolds/ October Flower/ Solar Dye PART 2

2017 October

Garden Parent Outdoor Lesson #3

Objective: This is a follow up lesson from last week, so the children can continue their learning as 1st grade scientists, and complete their solar dye experiments . They will receive a broad overview of the plant dye bed after observing the results of their marigold jars. Children will receive 2-3 samples of plant-dyed play-dough and will try to guess how the colors were achieved. The children can then take the play-dough back to the classroom to play with.

Time/location: The entire lesson can be done in 30-40 minutes in the school garden, with take away plant dyed play-dough.

Materials: gloves, goggles, solar dye jars, trays, pre-made plant-dyed play dough, plant-fabric sample chart, Lab Sheet- (for result)

Poems: *Cycle*, by Langston Hughes (excerpt)

Lesson:

Part 1 / Complete the experiment 20min

- Garden Parents will have brought out the solar dye jars out to the garden, and set up stations for the kids to open their jars.
- After putting on gloves, they will open their prepped jars, and dump out the contents into prepped bowls,
- They will retrieve their cotton and wool fabric samples wash in the soapy wash basin, and place them on the tray.
- Remind the kids to make observations about the contents, what do they notice when they open their jars, before and after they wash their samples.
- Remove Gloves and deposit in the glove bag.

Part 2/ Learn About the Plant Dye Bed 10min

- Gather together, and introduce the kids to all the plants in the plant dye bed: Indigo, Wode, Amaranth, Marigold, Calendula, Coriopsis, etc..
- Use the library fabric sample chart to help guide the discussion.
- Ask them to guess what colors each plant might make.
- Remind them

Part 3/ Plant-Dyed Play Dough 5min

- Present the kids with 2-3 plant-dyed play-doughs, and ask them to guess how each color was made.
- Students may bring the dough back to the classroom to use and play with.

At any point needed to re-group:

-Deep Breath Pause: Breathe in the air just the way the roots absorb in the water, feel it go to all parts of your body, (feel the water going up your trunk, into your branches, out to the leaves, make food, and evaporate) and breath out.

Part 4/ Poem & Movement (Repeat from Last Week) 5min

Cycle, by Langston Hughes (excerpt)

So many little flowers,

Drop their tiny heads

But newer buds come to bloom

In their place instead.



