

2nd Grade Fall Lessons – Soils

GC = Growing Classroom; LL = Local Lesson; SGP = School Garden Project

2 nd Grade Lessons	Garden Lesson ideas to Bolster STC Soils – and meet NGSS – Fall or Spring		
Lesson # and Date	Lessons	Source	Materials Needed
1)	A)Six of One Half Dozen of the Other pg 66	GC	Egg Cartons with descriptive words on the bottom
	B) Everyone needs a Rock pg 64	GC	8 distinctive Rocks Blind folds
	C)Tasting in the garden – crunchy v juicy spicy v sweet; - Descriptive words	LL GC	Cutting boards Knife for cutting produce White board and stand Dry erase markers Castile soap + scrubby Bowl for compost scraps Fork to help distribute pieces
2)	A)Space Travelers – soil exploration. 81– Can we identify the ingredients in our garden soil? Can we make soil?	GC	4 bins w/soil from 4 places in the garden Samples of twigs, rocks, leaves, seeds, roots Yogurt container lids Tweezers Magnifying glasses Pencils and sharpener Clip boards/paper White board and Dry erase markers
	Nitty Gritty pg 83 If only two stations this can be combined with WAMO station and the sensory soil can be done as one station	GC	One jar for each group Trowel Beach ball Frisbee Dime Watering can with water
	C) WAMO	SGP	Large empty plastic jar Rocks Leaves and sticks Water 4 containers to hold the 4 elements
3)	A)Bring in the clean- up Crew pg 100 Day 1 Recommend two groups and having each group bury 5 or 6 items after making predictions, recorded by each student onto their observation sheet. 2-3 students per buried item.	GC	Observation sheet + clip boards and pencils Pieces of metal, glass, plastic, rubber, vegetables, bone, wood, paper, rope, leather, feathers Trowel or shovel Markers! And rocks to mark
	B) Compost Bingo – compost food web Discussion about all the creatures that help break down organic matter for the soil. It’s not just worms!	LL SGP	Laminated Diagram of the compost food web Laminated compost bingo cards Dry erase pens Trowels to help move compost around May need to bring a created compost bin with creatures they are searching for or place creatures in containers Magnifying glasses and plates or lids

4) 10/12-10/23 Soil make up 10/16 – Williams 10 & Reed 1:40pm 10/20 – McF 10am	A) Making a batch of compost – “Let’s Make a Compost Cake” pg 103	GC	Green materials – Kitchen veggie scraps, green leaves, coffee grounds, green cut grass Brown materials – straw, dried leaves, sawdust Shovel, pitchfork, trowels, Watering can with water
	B) Nitty Gritty Follow up analysis and water in soil game	GC SGP	Nitty gritty chart, Jars of settled soil SGP lesson with game description Beach Ball, Frisbee and dime to demonstrate
	C) Soils – Nutrient testing pH, Potassium, Phosphorus and Nitrogen	SGP and Local	Lesson description of nutrients, their use in the plant and a good source of the nutrient, Soil Test Kits – soil sample shaken up w/ h ₂ o, Clean water for mixing pH sample White board and dry erase
5) 10/19-10/30 Soil make up 10/23 – Williams 10 & Reed – 1:40pm 10/27 McF 10am	A) Bring in the clean - up Crew pg 100– Day 2 – Final observation	GC	Trowel Ziplock bags Whiteboard and markers Predictions from day 1
	B) Eat the Earth pg 216 – could be in classroom with a donated box of apples for everyone to taste.	GC	In class separately by teacher as an option
	C) A Day at the Races pg113 soil erosion and testing different soil farming methods and the effect on erosion.	GC	5 water cans 5 soil containers 5 blocks 5 measuring cups Water in a bucket timer Soil Sod Rulers Terrace materials to match size of soil box