



Standards- Based Learning Targets

Second Grade Unit: Soils

Lesson #	Lesson Name	Science Standard	Student Learning Target	Assessment
1	Pre-Unit Assessment: What Is in Soil?	2-3 INQA	I can predict what I might find in garden soil. I will record what I find in the garden soil.	Teacher Observes Journal Entry
2	Where Do Dead Plants Go?	2-3 INQB	I can create a compost bag with and without worms. I will predict, observe, and record changes to my compost bags.	Think, Pair, Share Journal Entry
3	Introducing Sand, Clay, and Humus	2-3 INQB	I can observe clay, sand, and humus using my senses. I will record my observations through writing and drawing.	Think, Pair, Share Journal Entry
4	When Soils Get Wet	2-3 INQB	I can observe, compare, and record wet and dry samples of clay, sand, and humus.	Teacher/Student Observe Journal Entry
5	More about Wet Soils	2-3 INQB	I can make a smear of sand, clay and humus.	Think, Pair, Share Journal Entry
6	How Quickly Do Soils Settle in Water?	2-3 INQB	I can record and discuss the results of the smear test.	Think, Pair, Share Journal Entry
7	More Settling a Few Days Later	2-3 INQB	I can observe, discuss, compare and record the settled humus, clay, and sand after one day.	Teacher/Student Observe Journal Entry



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8	What Is Your Mystery Mixture?	2-3 INQB	I can run 4 tests and record the results.	Teacher/Student Observe Journal Entry
9	Growing Plants in Different Soils	2-3 INQB	I can plant seeds in clay, sand, humus and local soil. I will use a logbook to record the process of my plant.	Think, Pair, Share Journal Entry
10	Why Do Plants Have Roots in Soils?	2-3 INQB	I can plant seeds in clear tubes filled with sand, clay, and humus. I can observe, discuss, and record the changes in each tube.	Think, Pair, Share Journal Entry
11	Can Soil Hold Water?	2-3 INQB	I can observe and record the amount of water that moves through humus.	Teacher/Student Observe Journal Entry
12	How Water Moves through Sand and Clay	2-3 INQB	I can	Think, Pair, Share Journal Entry
13	Opening the Compost Bags	2-3 APPB	I can observe, discuss and record changes that have taken place inside my compost bags. I can discuss with my partner the results of composting with and without worms.	Notebook Entry Discussion



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14 & 15	Exploring Your Local Soil More about Your Local Soil	2-3 INQB	I can predict, observe and run a touch and roll test, a smear test and draining of water on local soil.	Think, Pair, Share Journal Entry
16	What Is Your Local Soil?	2-3 INQB	I can summarize my investigation of local soil and compare plant growth in sand, clay, humus, and local soil.	Think, Pair, Share Journal Entry
17	Post-Unit Assessment: Sharing What We Know about Soils	2-3 INQB	I can discuss and reflect in what I have learned about soils.	Notebook Entry Discussion

