Evaluation Supplemental Materials:

1. Sentence Starters for Planning and Carrying Out an Investigation of Properties of Matter

a. My investigation is about the property of ______.

b. For my investigation, students would need to be inside the classroom / outside .

.

___.

- c. Materials I would need to gather would include: _____
- d. The activity that I would have students do would be: _____
- e. In would know students were doing the investigation appropriately if I saw _____

2.	Rubric	for	having	students	design	their	own	soils	investigation	

Criteria	3	2	1	
Location of soil	Student suggested	Student suggested	Student could not	
sample	an appropriate new	an area to obtain a	come up with a	
1	place to obtain a	soil sample that was	place to obtain a	
	soil sample	already used in the	soil sample	
	1	previous	1	
		investigation		
Collecting and	Student was able to	Student was able to	Student was unable	
drying the sample	describe how to dig	describe either how	describe how to	
	and collect a soil	to dig and collect a	collect or dry the	
	sample and how to	soil sample or how	sample	
	dry it	to dry it	_	
Sieving soil sample	Student was able to	Student was able to	Student was not	
	describe how to use	describe how to use	able to describe	
	a soil sieve such as	a soil sieve such as	how to use a soil	
	how to place	how to place	sieve such as how	
	samples in the top	samples in the top	to place samples in	
	and shake and that	and shake or that	the top and shake	
	particles would be	particles would be	and that particles	
	divided in pans by	divided in pans by	would be divided	
	different sizes	different sizes	in pans by different	
			sizes	
Explanation of soil	Students were able	Students were able	Students were	
properties	to define and	to define either soil	unable to describe	
	describe properties	texture or color	soil texture and	
~	of texture and color		color	
Grain sizes	Students were able	Students were able	Students were	
	to describe the	to describe the	unable to describe	
	difference in	texture (feeling) of	any textures of	
	texture (feeling)	one grain size such	grain sizes.	
	between large	as: large (gravel),		
	(gravel), medium	medium (sand), and		
	(sand), and small	small (silt/clay) size		
	(silt/clay) size	grains		
Lucia entre de la la	grains	Ctordonator 11	Ctordante e	
Importance of soils	Students were able	Students were able	Students were	
	to explain at least	to explain a reason	unable to explain	
	two reasons why	why soils important	any reasons why	
	soils are important	such as nutrients for	soils are important.	
	such as nutrients for	growing plants, as		
	growing plants, as	home for		
	home for	organisms, and		
	organisms, and	holding water		
	holding water			