

Science Academies for Grades K-4, Part 2
Materials List - Non Vendor

		Lessons									
		Earth					Organisms and Environments				
Materials	Total Qty	K	1	2	3	4	K	1	2	3	4
table tennis balls	24						24 (Explore)				
permanent marker, fine tip	1			1 for tchr (Explore)			1 (Explore)				
buckets or baskets	3						3 (Explore)				
clear, plastic containers such as small animal terrariums	2						2 for tchr (Elab)				
canister of dry oats	1						1 for tchr (Elab)				
apple slices or a moist paper towel	1 apple						1 apple for tchr (Elab)				
potting soil	1 bag						1 bag (Elab)				
water	access to tap or sink		(Elab)			(Explore)	small amt per group (Elab)				
small plant	6-9						1 per group (Elab)	1 per group (Elab)			1 per group and 1 for tchr (Explore 1)
mealworms	20-30						2-3 per group (Elab)				
8 oz bottle of water	6-9						1 per group (Elab)				
resealable plastic bag, sandwich size	1 box of 100	1 per group (Engage)	1 (Engage)			1 per group (Explore)	1 for tchr (Engage), 1 per group (Elab)	1 for tchr (Engage)	13 (Explore)		
picture or model of Sun	6-9						1 per group (Elab)				

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metric ruler	6-9					1 per group (Engage)	1 per group (Elab)					1 per group (Explore 1)
scissors	for group							some per group (Explore)				
glue	for group							some per group (Explore)				
colored pencils or crayons	for group			per student pair (Explore); for each student (Elab)				per group (Explore)	per student (Explain)			
white board	for tchr							for tchr (Explain)	for tchr (Engage, Elab)			
dry erase markers	1 pkg for tchr							1 pkg for tchr (Explain)	1 pkg for tchr (Engage)			
composition books (science notebooks)	25-30			1 per student (Engage)				1 per student (Elab)	1 per student (Explain, Elab)			
earthworms	20-30				several (Engage)			2-3 per group (Elab)				
dead leaves	25-35				handful (Engage)			2-3 per group (Elab)				
large clear plastic container	6-9							1 per group (Elab)				
netting (to cover large plastic container)	6-9 sheets							1 sheet per group (Elab)				

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garden soil (to halfway fill large plastic container)	1 bag				2 cups (Engage, Eval)			per group (Elab)			
large rubber band (to secure netting to container)	6-9							1 per group (Elab)			
water in a spray bottle	6-9 bottles		1 per group (Explore)					1 per group (Elab)			
white copy paper	1 ream			1 sheet per student pair (Explore); 1 per student (Elab)					1 sheet per student (Explain)		
pencil	25-30							1 per student (Explain)	1-2 per group (Explore)		
clear adhesive tape or glue stick	6-9			1 for tchr (Elab)	(Engage)			1 per group (Explain)			
paper clips	15								1-2 per group (Explore)		
plastic resealable bags, gallon size	60					2 per group (Explore)				(Explore, Explain)	1 bag (Explore 1)
lamp or light source (http://www.walmart.com/ip/30474441?productRedirect=true)	6-9										1 per group and 1 for tchr (Explore 1)
video recording equipment											for tchr (Elab)

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marker	6-9	1 (Engage)	1 (Engage, Explore)	1 for tchr (Engage); 1 per group (Explore)	1 dark- colored (Engage, Eval)	1 dark- colored per group (Engage, Explore)					
masking tape	1 roll	(Engage)				(Engage)	(Engage)				
small bag of sand	25-50 lb bag	1 per group (Engage)				3 cups per group (Explore)					
objects that are not rocks (see suggested items listed in lesson)	50-80 objects	8-10 per group (Engage)									
note cards	1 pkg 3x5"	2 per group (Engage)									
resealable plastic bag, jewelry size	6-9	1 per group (Engage)									
digital camera	1	1 for tchr (Explore)									
file folders	8-12	for tchr (Explore)									
glue stick	1	1 for tchr (Explore)									
additional rocks from home	15-20 rocks	10-12 rocks per group (Explore, Elab)		1 (Engage; small enough to fit in shoebox)							
art supplies (crayons, construction paper, scissors)	as available	per groups (Elab)		per student (Eval)							

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garden spade/hand shovel	6-9		1 (Engage); 1 per group (Explore, Elab)								
chocolate chip cookie	25-30		1 per student (Engage)								
napkin	50-70		1 per student (Engage)			1 per student (Engage)					
wet wipes	1 container		1 per student (Explore, Elab)								
craft sticks	1 pkg		2-3 per group (Explore)			1 per group (Explore)					
paper towels	2 rolls		2-3 per group (Explore, Elab)	2-3 per group (Explore)							
plastic spoons	12-18		2 per group (Explore)								
resealable plastic bag, quart size	1 box		1 per group (Explore)								
strainer/sieve	6-9		1 per group (Explore)								
tablecloth or newspaper	6-9		1 per group (Explore)								

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small paper plate	35-40		1 per student (Explore)		1 (Engage), 1 per student (Eval)	1 per group (Explore)					
empty 16.9 oz plastic water bottle	6-9		1 per group (Explore)								
funnel	6-9		1 per group (Elab)								
liquid dish soap	1 small bottle		(Elab)								
soil samples (from home)											
cardboard shoebox with lid				1 for teacher (Engage)							
liquid paper	1 bottle			1 for tchr (Explore)							
3-4 rocks	3-4				various size from home (Engage, Explore, Eval)						
banana	1				(Engage, Eval)						
card stock	2 sheets				(Engage, Eval)						
sugar cubes	25-30				1 per student (Explore)						
sandpaper	1 pkg				(Explore)						
black construction paper, laminated	3 sheets				(Explore)						
envelopes, size DL	2				(Explore)						
toasted oats cereal	1 box					(Engage)					

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wrapped straws	100-125					4-5 per student (Engage, Explore)					
PVC elbow pipe, 1/2", threaded at both ends	6-9					1 per group (Explore)					
PVC plugs, 1/2", threaded at one end	12-18					2 per group (Explore)					
small bowl	6-9					1 per group (Explore)					
small limestone samples, no wider than 2 cm	18-27					3 per group (Explore)					
16.9 oz plastic bottle with cap	6-9					1 per group (Explore)					
balloon hand pump	1					(Explore)					
bamboo skewers	4					(Explore)					
cornstarch	1 pkg					(Explore)					
small plastic cup, 4 oz	1 pkg					1 per group (Explore)					
16.9 oz plastic bottle, cut lengthwise	1					(Explore)					