

## Appendix E — Version 4: Manipulative List

Manipulative	ELA	Math	Science
<b>Level I</b>			
1 writing implement familiar to student	•		
3* blank pieces of lined paper	•		
1 favorite, age-appropriate book	•		
1 classroom magazine	•		
1 toy car	•		
1 crayon	•		
3 red one-inch blocks	•	•	
1 cube		•	
4 markers (same color/size)		•	
1 ball		•	
4 unsharpened pencils		•	
5 yellow one-inch blocks		•	•
1 book			•
1 small plastic cup			•
1 large plastic cup			•
3 clear, resealable sandwich-size plastic bags			•
1 citrus fruit			•
7* cotton balls			•
1 cup of water			•
3 clear plastic cups			•
<b>Level II</b>			
1 crayon	•		
1 clear plastic cup	•		
1 spoon	•		
1 small box	•		
1 small ball	•		
1 bowl	•		
1 toy car	•		
1 favorite, age-appropriate book	•		
1* blank piece of lined paper	•		
10 yellow one-inch blocks	•	•	

\*Asterisk denotes a manipulative to be treated as a single-use item. These manipulatives should only be used on the task they are associated with and should be discarded after the task has been completed by the student.

Manipulative	ELA	Math	Science
1 twelve-inch ruler		•	
1 scale familiar to student		•	
1 pencil		•	
1 twelve-inch piece of string		•	
1 full bottle of glue		•	
1 empty wallet/change purse		•	
2 pennies		•	
2 quarters		•	
2 one-dollar bills		•	
3 red color counters		•	
3 blue color counters		•	
3 yellow color counters		•	
<b>Level III</b>			
1 familiar toy	•		
1 unfamiliar, age-appropriate book	•		
1 favorite, age-appropriate book	•		
1 cube (at least 2 × 2 × 2 inches large)		•	
5 yellow one-inch blocks		•	
5 red one-inch blocks		•	
5 blue one-inch blocks		•	
1 calculator		•	
1* blank piece of lined paper		•	
1 pencil		•	•
1 dark rock			•
1 smooth rock			•
1 rough rock			•
1 shiny rock			•
1 light-colored rock			•
2 bowls			•
2* cups of flour			•
1 plastic cup			•
1* ½-cup of water			•
1 measuring cup			•

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Manipulative	ELA	Math	Science
3 identical clear plastic cups filled $\frac{3}{4}$ with water			•
1 metal spoon			•
1 wooden spoon			•
1 plastic spoon			•
1 plastic straw			•
1 steel nail			•
1 wooden stick			•
1 plastic bottle			•
1 piece of aluminum foil			•
1 index card			•
1 measuring spoon			•
1 tablespoon of sugar			•
1 paper towel			•
1 twelve-inch ruler			•
<b>Level IV</b>			
1 calculator		•	
2* blank pieces of lined paper		•	
1 pencil		•	
1 one-cup measuring cup		•	
1 $\frac{1}{4}$ -cup measuring cup		•	
1 twelve-inch ruler		•	
1 tablespoon		•	
1 gallon pitcher		•	
1 scale familiar to student		•	
1 teaspoon		•	
1 clear plastic measuring cup		•	
1 thermometer		•	
1 one-inch block			•
3 identical plastic bottles with caps			•
3 cups of sand			•
3 cups of flour			•
3 cups of cotton			•
1 road map			•

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Manipulative	ELA	Math	Science
1 periodic table			•
1 newspaper			•
1 feather			•
1 coin			•
1 plastic straw			•
1 toothpick			•
1 rock			•
1 metal nail			•
1 cork			•
1 2-section sorting structure			•
1 crayon			•
<b>Level V</b>			
5* blank pieces of lined paper	•	•	•
1 pencil	•	•	
10 one-dollar bills		•	
4 quarters		•	
1 calculator		•	•
1 bottle of blue food coloring		•	
1 half-gallon of water		•	
1 pitcher		•	
1 two-cup clear measuring cup		•	
5 number tiles (4, 16, 32, 53, 82)		•	
1 yellow marker			•
1 orange marker			•
1 thermometer			•
1 twelve-inch ruler			•
1 balance			•
1 magnifying glass			•
1 measuring cup			•
1 rock			•

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