## Glossary of Manipulatives

$\left.$| Attribute Blocks The Attribute Blocks set includes five basic shapes |
| :--- |
| (triangle, square, rectangle, circle, and hexagon) displaying different |
| attributes. The basic shapes come in three different colors, two different |
| sizes, and two different thicknesses. Attribute Blocks can be used to teach |
| sorting, patterns, and identifying attributes. |\(\left|\begin{array}{l}Attribute Sorting Circles These collapsible circles can be used to teach <br>

beginning algebraic thinking by having children sort objects into sets. <br>

They also can be used for classifying geometric shapes by attribute.\end{array}\right|\)| Classifying Counters Children use these self-standing, plastic objects to |
| :--- |
| build and reinforce counting, logic, and attribute skills. People, dogs, cars, |
| houses, and trees come in 10 different colors. | \right\rvert\, | l" Color Cubes These multicolored 1 " cubes can be used to teach |
| :--- | :--- |
| sorting, counting, and understanding patterns. They are also ideal for |
| introducing young children to measurement of length, width, area, |
| and volume. |

Frog Counters These 2" fun, soft, rubber frog counters can be used
for counting and sorting activities. They come in five fun shapes in six
bright colors.

## Index

Boldface page numbers indicate when a manipulative is used in the Try It! activity.

Addition
joining groups, 62-65
make ten, 94-97
part-part-whole, 86-89
plus sign, understand and use, 66-69
sums to $10,78-81$
Attribute Blocks
attributes of cubes and spheres, 176
counting forward and back, 0 to 5, 20
identify
attributes of cubes and spheres, 176
inside and outside, 156, 157
left and right, 140
on, above, and below, 152
plane shapes
attributes of, 172, 173,
180, 181, 184, 185
identify and compare to real-life objects, 164, 165
use to create pictures, 168, 169
sort by
one attribute, 127
two attributes, 131
sorting rule, determine, 135
Attribute Sorting Circles
identify
inside and outside,
156, 157
left and right, 141
sort by
one attribute, 127
two attributes, 131
sorting rule, determine, 135
Attributes
of cubes and spheres,
176-179
of plane shapes, 172-175, 180-187
sort by
one attribute, 126-129
two attributes,
130-133

Classifying Counters
addition
make 10, 95
sums to 10,79
identify
before and after, use language to describe relative positions, 161
more than, same number as, and less than, apply to groups of objects, 53
represent numbers with sets of objects, through 9, 37
subtraction, differences from 10, 83
Color Cubes, $1^{11}$
attributes of cubes and spheres, 176, 177
counting forward and back, 0 to 5, 20
identify
different arrangements
of objects to
represent the same
number, 16
sets of objects
to represent
the same
number, 32
equal groups using
one-to-one
correspondence, 44
front, behind, and between, 149
more than, same number as, and less than, apply to groups of objects, 52
on, above, and below, 153
plus sign, understand and use, 67
sorting rule, determine, 134
Color Tiles
compare groups of 1 to 10 objects, 41
counting forward and back, 0 to 5, 21
identify
left and right, 141
before and after, use language to describe relative positions, 160
length, estimate and measure, 123
Common Core State Standards
K.CC Counting and Cardinality
K.CC.2, 8-11
K.CC.3, 12-15, 16-19
K.CC.4, 24-27, 28-31, 32-35, 36-39
K.CC.4a, 20-23, 24-27, 28-31, 32-35, 36-39
K.CC.4b, 20-23, 24-27, 28-31, 32-35, 36-39
K.CC.4c, 20-23, 24-27, 28-31, 36-39
K.CC.5, 12-15, 16-19, 24-27, 28-31, 32-35, 36-39
K.CC.6, 40-43, 44-47, 48-51, 52-55, 56-59
K.CC.7, 56-59
K.OA Operations and Algebraic Thinking
K.OA.1, 62-65, 66-69, 70-73, 74-77, 78-81, 82-85
K.OA.2, 62-65, 66-69, 70-73, 74-77, 78-81, 82-85
K.OA.3, 86-89, 90-93
K.OA.4, 94-97
K.OA.5, 66-69, 74-77
K.NBT Number and

Operations in Base Ten
K.NBT.1, 100-103, 104-107
K.MD Measurement and Data
K.MD.1, 110-113, 114-117, 118-121, 122-125
K.MD.2, 114-117, 118-121
K.MD.3, 126-129, 130-133, 134-137
K.G Geometry
K.G.1, 140-143, 144-147, 148-151, 152-155, 156-159, 160-163, 164-167, 168-171
K.G.2, 164-167, 172-175, 176-179
K.G.3, 164-167, 176-179
K.G.4, 172-175, 176-179, 180-183, 184-187
K.G.5, 164-167, 168-171
Compose numbers 11-19 in tens and ones, 100-103
Counting and cardinality
compare groups of 1 to 10
objects, 40-43
counting forward and back,
0 to 5, 20-23
counting on, using a number
line, 8-11
different arrangements of objects to represent the same number, 16-19
sets of objects to represent the same number, 32-35
estimate and count groups of
10 objects, 28-31
identify
equal groups using one-to-one correspondence, 44-47
more and fewer, 48-51
more than, same number as, and less than, apply to groups of objects, 52-55
a number for a group of 0 to 20 objects, 12-15
a number for groups of 6 to 10 objects, 24-27
order of numbers 1 to 5 , 56-59
represent numbers with sets of objects, through 9, 36-39

CountTEN ${ }^{\circledR}$ Sorting Tray addition
sums to 10,79
make ten, 94,95
decompose numbers 11-19 in
tens and ones, 104
identify
before and after, use language to describe relative positions, 161
more than, same number as, and less than, apply to groups of objects, 53
represent numbers with sets of objects, through 9, 37
subtraction, differences from 10, 83
Decompose numbers, 90-93, 104-107
Dice, dot
more than, same number as, and less than, apply to groups of objects, 52
represent numbers with sets of objects, through 9, 36
Frog Counters
addition, part-part-whole, 86
counting on using a number line, 8, 9
identify a number for groups of 6 to 10 objects, 25
identify position
before and after, use language to describe relative positions, 160
left and right, 140
on, above, and below, 152
minus sign, understand and use, 75
plus sign, understand and use, 66
separating problems, 70
sort by two attributes, 130
sorting rule, determine, 134
Geometry
attributes of
cubes and spheres, 176-179
plane shapes, 172-175, 180-187
plane shapes
attributes of 172-175, 180-187
identify and compare to real-life objects, 164-167
use to create pictures, 168-171
identify position
before and after, use language to describe relative positions, 160-163
front, behind, and between, 148-151
inside and outside, 156-159
left and right, 140-143
on, above, and below, 152-155
top, middle, and bottom, 144-147
Height
nonstandard measurement of, 110-113
sort by, 114-117
Identify
equal groups using one-to-
one correspondence, 44-47
more or fewer, 48-51
more than, same number as, and less than, apply to
groups of objects, 52-55
a number for a group of 0 to 20 objects, 12-15
a number for groups of 6 to 10 objects, 24-27
Identify position
before and after, use
language to describe
relative positions, 160-163
front, behind, and between, 148-151
inside and outside, 156-159
left and right, 140-143
on, above, and below, 152-155
top, middle, and bottom, 144-147
Length
estimate and measure, 122-125
sort by, 118-121

Link ' N ' Learn ${ }^{\circledR}$ Links addition
joining groups, 62
part-part-whole, 86
compare groups of 1 to 10
objects, 40
estimate and count groups of 10
objects, 28, 29
identify
equal groups using one-toone correspondence, 45
more or fewer, 48
a number for groups of 6 to 10 objects, 24
height, nonstandard
measurement of, 110, 111
order of numbers 1 to $5,56,57$
sort by
height, 114
length, 118
one attribute, 126
two attributes, 130
Measurement and data
height, nonstandard
measurement of, 110-113
length, estimate and measure,
122-125
sort by
height, 114-117
length, 118-121
one attribute, 126-129
two attributes, 130-133
sorting rule, determine, 134-137
Number and operations in base ten
compose numbers 11-19 in tens
and ones, 100-103
decompose numbers 11-19 in
tens and ones, 104-107
Operations and algebraic thinking addition
joining groups, 62-65
make ten, 94-97
part-part-whole, 86-89
plus sign, understand and use, 66-69
sums to 10, 78-81
decompose numbers, 90-93
subtraction
differences from 10, 82-85
minus sign, understand and use, 74-77
separating problems, 70-73
Order of numbers 1 to 5,56-59
Pattern Blocks
attributes, sort by one, 126
different arrangements of
objects to represent the same number, 16
identify
before and after, use language to describe relative positions, 160
front, behind, and between, 148
top, middle, and bottom, 144
length, estimate and
measure, 122
plane shapes
attributes of, 172, 180, 184
use to create pictures, 168
Plane shapes
attributes of, 172-175, 180-183, 184-187
identify and compare to real-life objects, 164-167
use to create pictures, 168-171
Represent numbers with sets of objects,
through 9, 36-39
Snap Cubes ${ }^{\circledR}$
addition
joining groups, 62
part-part-whole, 87
sums to 10,78
compare groups of 1 to 10
objects, 40
compose numbers 11-19 in tens
and ones, 100, 101
decompose numbers, 90, 91,
104, 105
estimate and count groups of 10 objects, 28
height
nonstandard measurement of, 110
sort by, 114, 115
identify
different arrangements of objects to represent the same number, 17
sets of objects to represent the same number, 32
equal groups using one-toone correspondence, 44
inside and outside, 156
more and fewer, 48, 49
more than, same number
as, and less than, apply
to groups of objects, 52
a number for a group of 0 to 20 objects, 12,13
a number for groups of 6 to 10 objects, 24
top, middle, and bottom,
145
length
estimate and measure, 122
sort by, 118, 119
order of numbers 1 to 5,56
plus sign, understand and use, 66
subtraction
differences from 10, 82
minus sign, understand and use, 74
Sort by
height, 114-117
length, 118-121
one attribute, 126-129
two attributes, 130-133
Sorting rule, determine, 134-137
Subtraction
differences from 10, 82-85
minus sign, understand and use, 74-77
separating problems, 70-73
Three Bear Family ${ }^{\circledR}$ Counters
addition, joining groups, 63
counting on using a
number line, 8
compare groups of 1 to 10 objects, 41
identify
different arrangements
of sets of objects to
represent the same number, 33
front, behind, and between, 148
inside and outside, 156
a number for groups of
6 to 10 objects, 24
top, middle, and bottom,
144
minus sign, use and
understand, 74
separating problems, 71
sort by
one attribute, 126
two attributes, 130
sorting rule, determine, 134
Two-Color Counters
make 10, 94

