## Assessment Master 4 Performance Task Rubric

| Knowledge/Skills | Not yet adequate (needs assistance) | Adequate <br> (limited assistance) | Proficient | Excellent |
| :---: | :---: | :---: | :---: | :---: |
| Conceptual understanding <br> - explains and demonstrates that: - a repeating pattern repeats the core <br> - an increasing pattern grows by adding a given number of elements at each step <br> - identifying a pattern core makes it possible to identify missing elements in or extend a repeating pattern | $\square$ with one-to-one assistance, shows very limited understanding of patterning concepts including: <br> - repeating patterns <br> - increasing patterns <br> - pattern cores | $\square$ with prompting, shows partial understanding of patterning concepts including: <br> - repeating patterns <br> - increasing patterns <br> - pattern cores | $\square$ shows basic understanding of patterning concepts including: <br> - repeating patterns <br> - increasing <br> $\quad$ patterns $-\quad$ pattern cores | $\square$ shows in-depth understanding of patterning concepts including: <br> - repeating patterns <br> - increasing patterns <br> - pattern cores |
| Procedural knowledge <br> - identifies pattern core <br> - copies and extends a repeating pattern <br> - copies and extends an increasing pattern | $\square$ needs one-to-one help; major errors or omissions in: <br> - identifying pattern core <br> - copying and extending a repeating pattern <br> - copying and extending an increasing pattern | $\square$ somewhat accurate; may make several minor errors in: <br> - identifying pattern core <br> - copying and extending a repeating pattern <br> - copying and extending an increasing pattern | $\square$ generally accurate; few errors in: <br> - identifying pattern core <br> - copying and extending a repeating pattern <br> - copying and extending an increasing pattern | $\square$ accurate; very few or no errors in: <br> - identifying pattern core <br> - copying and extending a repeating pattern <br> - copying and extending an increasing pattern |
| Problem-solving skills <br> - uses appropriate strategies to: <br> - create a double attribute pattern <br> - create an increasing pattern | needs assistance to use appropriate strategies to - create a double attribute repeate - create an increatern pattern | with limited assistance, uses some appropriate strategies to - create a double attribute repeatitin pattern preate an increasing pattern | chooses appropriate strategies to: - create a double attribute repeating pattern - create an increasing pattern | $\square$ uses appropriate, often innovative strategies to: <br> - create a double attribute repeating pattern <br> - create an increasing pattern |
| Communication <br> - describes patterns <br> - uses appropriate patterning language (e.g., repeat, grow, pattern core) | $\square$ un <br> nable to clearly describe patterns <br> - rarely uses appropriate patterning language; unclear and imprecise |  | $\square$ describes patterns <br> - usually uses appropriate patterning anguage; generally clear and precise | describes patterns with precision <br> - confidently uses appropriate patterning language; clear and precise |

## Assessment Master 5 Patterning Rubric

This chart can be used to make decisions about children's achievement of unit outcomes.

| Knowledge/Skills | Not yet adequate (needs assistance) | Adequate (limited assistance) | Proficient | Excellent |
| :---: | :---: | :---: | :---: | :---: |
| Conceptual understanding <br> - shows understanding of repeating patterns (e.g., describes a pattern; explains pattern rule; predicts the next element in a pattern) <br> - shows understanding of increasing patterns (e.g., describes a pattern; explains pattern rule; determines missing elements) | $\square$ with assistance, shows very limited understanding of: <br> - repeating patterns (3-5 elements; double attributes) <br> - increasing patterns | $\square$ shows partial understanding of: <br> - repeating patterns (3-5 elements; double attributes) <br> - increasing patterns | $\square$ shows understanding of: <br> - repeating patterns (3-5 elements; double attributes) <br> - increasing patterns | $\square$ shows in-depth understanding, in a variety of contexts, of: - repeating patterns (3-5 elements; double attributes) <br> - increasing patterns |
| Procedural knowledge <br> - describes, extends, compares, and creates repeating patterns <br> - describes, reproduces, extends, and creates increasing patterns | $\square$ needs ongoing assistance; little accuracy; major errors/ omissions in: - describing, extending, comparing, and creating repeating patterns <br> - describing, reproducing, extending, and creating increasing patterns | - somewhat accurate; minor errors/ omissions in: <br> - describing, extending, comparing, and creating repeating patterns <br> - describing, reproducing, extending, and creating increasing patterns | generally accurate; few errors/ omissions in: <br> - describing, extending, comparing, and creating repeating patterns <br> - describing, reproducing, extending, and creating increasing patterns | accurate; very few or no errors/omissions in: <br> - describing, extending, comparing, and creating repeating patterns <br> - describing, reproducing, extending, and creating increasing patterns |
| Problem-solving skills <br> - chooses and carries out a range of patterning strategies (e.g., concrete objects, pictures, numbers) to: <br> - create patterns <br> - solve and create problems | $\square$ needs assistance to: <br> - create simple patterns <br> - use patterning to create and solve simple problems | $\square$ with limited assistance, able to: <br> - create simple patterns <br> - create and solve simple problems | $\square$ in familiar contexts, able to: <br> - create patterns <br> - create and solve problems | $\square$ in a variety of contexts, able to: <br> - create increasingly complex patterns <br> - create and solve a variety of problems |
| Communication <br> - explains her reasoning and procedures clearly, including appropriate terminology | unable to explain reasoning and procedures | $\square$ partially explains reasoning and procedures | $\square$ explains reasoning and procedures clearly | $\square$ explains reasoning and procedures clearly, confidently, and with precision |

## Assessment Master 4 Performance Task Rubric

| Knowledge/Skills | Not yet adequate (needs assistance) | Adequate (limited assistance) | Proficient | Excellent |
| :---: | :---: | :---: | :---: | :---: |
| Conceptual <br> understanding <br> - estimates quantities and <br> describes strategies <br> - describes and demonstrates different ways of counting <br> - represents and describes numbers in different ways | $\square$ shows very limited understanding of number concepts - makes reasonable estimates <br> - describes estimating strategies <br> - describes and demonstrates different ways of counting <br> - represents and describes numbers in different ways | shows some understanding of number concepts; with prompting and support, able to - make reasonable estimates - describe estimating strategies - describe and demonstrate different ways of counting represent and describe numbers in different ways | $\square$ shows basic understanding of number concepts; able to <br> - make reasonable estimates <br> - describe estimating strategies <br> - describe and demonstrate different ways of counting <br> - represent and describe numbers in different ways | shows in-depth understanding of number concepts; independently able to <br> - make reasonable estimates <br> - describe estimating strategies <br> - describe and demonstrate different ways of counting <br> - represent and describe numbers in different ways |
| Procedural knowledge <br> - counts accurately <br> - compares numbers | $\square$ needs one-to-one help; makes major errors in <br> - counting <br> - comparing numbers | $\square$ partially accurate; makes minor errors in <br> - counting <br> - comparing numbers | $\square$ generally accurate; makes few minor errors in <br> - counting <br> - comparing numbers | accurate; very few or no errors in <br> - counting <br> - comparing numbers |
| Problem-solving skills <br> - represents the same number in a variety of different ways | $\square$ needs one-to-one, step-by-step assistance to represent the same number in different ways | $\square$ needs help to choose strategies; with limited assistance, able to represent the same number in different ways | chooses and uses appropriate strategies to represent the same number in different ways | $\square$ chooses and uses effective strategies; independently able to represent the same number in different ways; often innovative |
| Communication <br> - uses appropriate language to explain reasoning and procedures clearly (e.g. odd, even, first, ones, tens) | $\square$ unable to use appropriate language to explain reasoning and procedures | $\square$ uses limited appropriate language to explain reasoning and procedures | $\square$ uses appropriate language to clearly explain reasoning and procedures | $\square$ uses appropriate language to clearly explain reasoning and procedures, confidently, and with precision |

## Assessment Master 5 Numbers to 100 Rubric

| Knowledge/Skills | Not yet adequate (needs assistance) | Adequate (limited assistance) | Proficient | Excellent |
| :---: | :---: | :---: | :---: | :---: |
| Conceptual understanding <br> - shows understanding and reasoning of number concepts by: - demonstrating if a number is odd or even <br> - representing and describing numbers to 100 in various ways <br> - making reasonable estimates <br> - demonstrating place value concepts concretely and pictorially with 2 digit numbers <br> - demonstrating and explaining equality and inequality | shows little or no understanding and/or reasoning of number concepts; may be unable to <br> - demonstrate if a number is odd or even <br> - represent and describe numbers (various ways) <br> - make reasonable estimates <br> - demonstrate place value concepts <br> - demonstrate and explain equality/ inequality | uses and shows partial understanding and ability to reason with number concepts; able to <br> - demonstrate if a number is odd or even <br> - represent and describe numbers (various ways) <br> - make reasonable estimates <br> - demonstrate place value concepts <br> - demonstrate and explain equality/ inequality | uses and shows basic understanding and reasoning with number concepts; able to <br> - demonstrate if a number is odd or even <br> - represent and describe numbers (various ways) <br> - make reasonable estimates <br> - demonstrate place value concepts <br> - demonstrate and explain equality/ inequality | uses and shows indepth understanding and reasoning; able to - demonstrate if a number is odd or even <br> - represent and describe numbers (various ways) <br> - make reasonable estimates <br> - demonstrate place value concepts <br> - demonstrate and explain equality/ inequality |
| Procedural knowledge <br> - uses ordinal numbers (to tenth) <br> - compares and orders numbers (on a number line and a 100-chart) <br> - counts from 0 to 100 (by $1 \mathrm{~s}, 2 \mathrm{~s}, 5 \mathrm{~s}, 10 \mathrm{~s}$ ) <br> - counts a given sum of money (with pennies, nickels, dimes to 100థ) <br> - reads numbers and number words ( 0 100); uses number words (0-20) | often makes major errors/omissions in using ordinal numbers <br> - comparing and ordering numbers <br> - counting to 100 (1s, 2s, 5s, 10s) <br> - counting with money <br> - reading numerals and number words (to 100); recording number words (to 20) | partially accurate; frequent minor errors/omissions in using ordinal numbers - comparing and ordering numbers <br> - counting to 100 (1s, 2s, 5s, 10s) <br> - counting with money <br> - reading numerals and number words (to 100); recording number words (to 20) | generally accurate; few errors/ omissions in using ordinal numbers <br> - comparing and ordering numbers <br> - counting to 100 (1s, 2s, 5s, 10s) <br> - counting with money <br> - reading numerals and number words (to 100); recording number words (to 20) | accurate; very few or no errors/ omissions in using ordinal numbers <br> - comparing and ordering numbers <br> - counting to 100 (1s, 2s, 5s, 10s) <br> - counting with money <br> - reading numerals and number words (to 100); recording number words (to 20) |
| Problem-solving skills <br> - chooses and carries out a range of strategies to estimate, represent, and describe numbers | needs assistance to choose and carry out appropriate problemsolving strategies | $\square$ with some assistance, chooses and carries out some appropriate problem-solving strategies | chooses and carries out appropriate problem-solving strategies | $\square$ chooses and carries out appropriate and effective problemsolving strategies in a variety of contexts; may be innovative |
| Communication <br> - explains reasoning and procedures clearly, including appropriate terminology | 〕unable to explain reasoning and procedures | $\square$ partially explains reasoning and procedure | $\square$ explains reasoning and procedures clearly | $\square$ explains reasoning, and procedures, clearly, confidently, and with precision |

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Name:
Date:

## Assessment Master 4 Performance Task Rubric

| Knowledge/Skills | Not yet adequate (needs assistance) | Adequate (limited assistance) | Proficient | Excellent |
| :---: | :---: | :---: | :---: | :---: |
| Conceptual <br> understanding <br> - shows understanding of addition and subtraction by: <br> choosing and explaining appropriate strategies <br> - connecting addition and subtraction to real-life experiences | $\square$ shows very limited understanding of addition and subtraction; needs one-to-one assistance to - choose and explain appropriate strategies <br> - connect addition and subtraction to real-life experiences | $\square$ shows some understanding of addition and subtraction; with prompting and support, able to - choose and explain appropriate strategies <br> - connect addition and subtraction to real-life experiences | $\square$ shows basic understanding of addition and subtraction; able to <br> - choose and explain appropriate strategies <br> - connect addition and subtraction to real-life experiences | $\square$ shows in-depth understanding of addition and subtraction; independently able to - choose and explain appropriate strategies <br> - connect addition and subtraction to real-life experiences |
| Procedural knowledge <br> - creates and records addition stories with a sum of 16 <br> - creates and records subtraction stories with a difference of 3 <br> - records result of changing addends by taking from one group and giving to another | $\square$ needs one-to-one help; frequent errors in <br> - creating and recording addition stories <br> - creating and recording subtraction stories <br> - recording result of changing addends | $\square$ partially accurate makes some errors in <br> creating and recording addition stories <br> - creating and recording subtraction stories <br> - recording result of changing addends | $\square$ generally accurate; may make a few minor errors in <br> - creating and recording addition stories <br> - creating and recording subtraction stories <br> - recording result of changing addends | $\square$ accurate; very few or no errors in <br> - creating and recording addition stories <br> - creating and recording subtraction stories <br> - recording result of changing addends |
| Problem-solving skills <br> - chooses and carries out appropriate personal strategies to create and solve problems | - needs one-to-one, step-by-step assistance to create and solve problems | $\square$ needs help to choose strategies; with limited assistance, able to create and solve problems | $\square$ chooses and uses appropriate strategies to create and solve problems | chooses and uses effective strategies; independently able to create and solve problems; often innovative |
| Communication <br> - explains his reasoning and procedures clearly, using appropriate terms (e.g., sum, difference) | unable to explain his reasoning and procedures | partially explains his reasoning and procedures | $\square$ explains his reasoning and procedures clearly | $\square$ explains his reasoning and procedures clearly, confidently, and with some precision |

## Assessment Master 5 Addition and Subtraction to 18 Rubric

This rubric can be used to assess and summarize children's achievement of unit outcomes:

| Knowledge/Skills | Not yet adequate (needs assistance) | Adequate <br> (limited assistance) | Proficient | Excellent |
| :---: | :---: | :---: | :---: | :---: |
| Conceptual understanding <br> - shows understanding of addition and subtraction processes by explaining and/or demonstrating: <br> - the effect of adding or subtracting zero <br> - personal strategies for adding and subtracting <br> - that the order in which numbers are added does not affect the sum <br> - that the order in which numbers are subtracted may affect the difference | $\square$ shows very limited understanding; needs one-to-one assistance to explain and/or demonstrate: <br> - the effect of adding or subtracting zero <br> - personal strategies <br> - order in which numbers are added does not affect sum <br> - order in which numbers are subtracted may affect the difference | shows some understanding; with prompting and support, able to explain and/or demonstrate: <br> - the effect of adding or subtracting zero <br> - personal strategies <br> - order in which numbers are added does not affect sum <br> - order in which numbers are subtracted may affect the difference | $\square$ shows basic understanding; able to explain and/or demonstrate: <br> - the effect of adding or subtracting zero <br> - personal strategies <br> - order in which numbers are added does not affect sum <br> - order in which numbers are subtracted may affect the difference | shows in-depth understanding; independently able to demonstrate: <br> - the effect of adding or subtracting zero <br> - personal strategies <br> - order in which numbers are added does not affect sum <br> - order in which numbers are subtracted may affect the difference |
| Procedural knowledge <br> - adds and subtracts (to 18) <br> - uses mental mathematics strategies for basic addition facts to 18 and corresponding subtraction <br> - identifies equalities and inequalities | needs one-to-one help; makes frequent errors in: <br> - adding (to 18) <br> - subtracting (to 18 ) <br> - mental math for basic facts (to 18) <br> - identifying equalities and inequalities | $\square$ partially accurate; some errors in <br> - adding (to 18) <br> - subtracting (to 18) <br> - mental math for basic facts (to 18) <br> - identifying equalities and inequalities | generally accurate ; may make a few minor errors in <br> - adding (to 18) <br> - subtracting (to 18) <br> - mental math for basic facts (to 18) <br> - identifying equalities and inequalities | accurate; very few or no errors in <br> - adding (to 18) <br> - subtracting (to 18) <br> - mental math for basic facts (to 18) <br> - identifying equalities and inequalities |
| Problem-solving skills <br> - chooses and carries out personal strategies to create and solve addition and subtraction problems | needs assistance to choose and carry out appropriate problemsolving strategies | with limited assistance, chooses and carries out some appropriate problemsolving strategies | chooses and carries out appropriate problem-solving strategies | $\square$ chooses and carries out appropriate and effective problemsolving strategies in a variety of contexts; may be innovative |
| Communication <br> - explains her reasoning and procedures clearly, using appropriate terms (e.g., zero, sum, difference ) | unable to explain her reasoning and procedures | partially explains her reasoning and procedures | explains her reasoning and procedures clearly | explains her reasoning and procedures clearly, confidently, and with some precision |

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## Assessment Master 4 Performance Task Rubric

| Knowledge/Skills | Not yet adequate (needs assistance) | Adequate (limited assistance) | Proficient | Excellent |
| :---: | :---: | :---: | :---: | :---: |
| Conceptual understanding <br> - shows understanding of measurement by: <br> - choosing appropriate units <br> - making reasonable estimates <br> - explaining his thinking and conclusions | $\square$ shows very limited understanding of measurement; needs one-to-one assistance to: - choose appropriate units - make reasonable estimates - explain his thinking and conclusions | shows some <br> understanding of <br> measurement with <br> prompting and <br> support, able to: <br> - choose <br> appropriate units <br> - make <br> reasonable <br> estimates <br> - explain his <br> thinking and <br> conclusions | 1 shows basic understanding of measurement; able to: <br> - choose appropriate units <br> - make reasonable estimates <br> - explain his thinking and conclusions | $\square$ shows in-depth understanding of measurement; independently able to: <br> - choose appropriate units <br> - make reasonable estimates <br> - explain his thinking and conclusions |
| Procedural knowledge <br> - measures length using multiple copies or a single copy of a unit (non-standard) <br> - measures height (nonstandard units) <br> - measures and compares distance around (nonstandard units) <br> - measures and compares mass using a balance (non-standard) <br> - reads a calendar <br> - relates days to a week | needs one-to-one hellp; frequent errors in: - measuring length using multiple copies or a single copy oo a unit - measuring height - measuring and comparing distance around - measuring and comparing mass - readinga calendar - relating days to a week | partially accurate; makes some errors in: - measuring length using multipipe copies or a single copy of a unit - measuring height - measuring and comparing distance around - measuring and comparing mass - readinga calendar - relating days to a week | generally accurate; may make a few minor errors in: - measuring length using multipipe copies or a single copy of a nuit - measuring height - measuring and comparing distance around - measuring and comparing mass - reading calendar relating days to a week | $\square$ accurate; very few or no errors in: <br> - measuring length using multiple copies or a single copy of a unit <br> - measuring height <br> - measuring and comparing distance around <br> - measuring and comparing mass <br> - reading a calendar <br> - relating days to a |
| Problem-solving skills <br> - chooses and carries out appropriate strategies, including estimation, to solve the problems | ] needs one-to-one, step-by-step assistance to solve the problems | $\square$ needs help to choose strategies; with limited assistance, able to solve the problems | $\begin{aligned} & \text { chooses and uses } \\ & \text { appropriate } \\ & \text { strategies to solve } \\ & \text { the problems } \end{aligned}$ | chooses and uses effective strategies; independently able to solve the problems; often innovative |
| Communication <br> - explains his reasoning and procedures clearly, using appropriate terms (e.g., unit, length, mass ) | unable to explain his reasoning and procedures | $\square$ partially explains his reasoning and procedures | $\begin{aligned} & \text { explains his } \\ & \text { reasoning and } \\ & \text { procedures clearly } \end{aligned}$ | explains his reasoning and procedures clearly, confidently, and with some precision |

## Assessment Master 5 Measurement Rubric

| Knowledge/Skills | Not yet adequate (needs assistance) | Adequate (limited assistance) | Proficient | Excellent |
| :---: | :---: | :---: | :---: | :---: |
| Conceptual understanding <br> - Shows understanding of measurement by explaining and/or demonstrating: - choice of an appropriate unit (non-standard) for a given task <br> - how choice of unit affects number needed <br> - her strategies for comparing and ordering <br> - how overlapping or leaving gaps affects accuracy <br> - how changing orientation of object does not alter measurements <br> - estimation strategies | shows very limited understanding; needs one-to-one assistance to explain/ demonstrate: <br> - choice of an appropriate unit <br> - how choice of unit affects number needed <br> - strategies for comparing; ordering <br> - how overlapping or leaving gaps affects accuracy <br> - how changing orientation does not alter measurements <br> - estimation strategies | shows some understanding; with prompting and support, able to explain/demonstrate: <br> - choice of an appropriate unit <br> - how choice of unit affects number needed <br> - strategies for comparing; ordering <br> - how overlapping or leaving gaps affects accuracy <br> - how changing orientation does not alter measurements <br> - estimation strategies | shows basic understanding; able to explain/demonstrate: <br> - choice of an appropriate unit <br> - how choice of unit affects number needed <br> - strategies for comparing; ordering <br> - how overlapping or leaving gaps affects accuracy <br> - how changing orientation does not alter measurements <br> - estimation strategies | shows in-depth understanding: independently able to explain/demonstrate: <br> - choice of an appropriate unit <br> - how choice of unit affects number needed <br> - strategies for comparing; ordering <br> - how overlapping or leaving gaps affects accuracy <br> - how changing orientation does not alter measurements <br> - estimation strategies |
| Procedural knowledge <br> - reads a calendar <br> - names and orders days of week, months <br> - relates days to a week; months to a year <br> - measures, compares, and orders length, height, distance around, mass (non-standard units) <br> - measures length using multiple copies or a single copy of a unit | Needs one-to-one help; makes frequent errors in: <br> - reading a calendar <br> - naming, ordering days of week; months <br> - relating days to week; months to year <br> - measuring, comparing, ordering: length, height, distance around, mass using multiple copies or single copy of a unit | $\square$ partially accurate; some errors in: <br> - reading a calendar <br> - naming, ordering days of week; months <br> - relating days to week; months to year <br> - measuring, comparing, ordering: length, height, distance around, mass using multiple copies or single copy of a unit | generally accurate; may make a few minor errors in: <br> - reading a calendar <br> - naming, ordering days of week; months <br> - relating days to week; months to year <br> - measuring, comparing, ordering: length, height, distance around, mass using multiple copies or single copy of a unit | $\square$ accurate; very few or no errors in: <br> - reading a calendar <br> - naming, ordering days of week; months <br> - relating days to week; months to year <br> - measuring, comparing, ordering: length, height, distance around, mass using multiple copies or single copy of a unit |
| Problem-solving skills <br> - chooses and carries out appropriate strategies, including estimation, to solve problems involving measurement | ] needs assistance to choose and carry out appropriate problemsolving strategies | with limited assistance, chooses and carries out some appropriate problemsolving strategies | chooses and carries out appropriate problem-solving strategies | chooses and carries out appropriate and effective problemsolving strategies in a variety of contexts; may be innovative |
| Communication <br> - explains her reasoning and procedures clearly, using appropriate terms (e.g., longer, unit) | unable to explain her reasoning and procedures | $\square$ partially explains her reasoning and procedures | explains her reasoning and procedures clearly | explains her reasoning and procedures clearly, confidently, and with some precision |

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## Assessment Master 4

## Performance Task Rubric

| Knowledge/Skills | Not yet adequate (needs assistance) | Adequate (limited assistance) | Proficient | Excellent |
| :---: | :---: | :---: | :---: | :---: |
| Conceptual understanding shows understanding of addition and subtraction by: <br> - representing the same 2-digit number in multiple ways <br> - choosing and explaining appropriate strategies <br> - connecting addition and subtraction to real-life experiences | $\square$ shows very limited understanding of addition and subtraction; needs one-to-one assistance to <br> - represent the same number in multiple ways <br> - choose and explain appropriate strategies <br> - connect addition and subtraction to real-life experiences | shows some understanding of addition and subtraction; with prompting and support, able to - represent the same number in multiple ways <br> - choose and explain appropriate strategies <br> - connect addition and subtraction to real-life experiences | shows basic understanding of addition and subtraction; able to - represent the same number in multiple ways <br> - choose and explain appropriate strategies <br> - connect addition and subtraction to real-life experiences | shows in-depth understanding of addition and subtraction; independently able to <br> - represent the same number in multiple ways <br> - choose and explain appropriate strategies <br> - connect addition and subtraction to real-life experiences |
| Procedural knowledge <br> - represents 2-digit numbers as 10 s and 1 s , (on place value mat) <br> - records an addition story using numbers <br> - determines sums and differences | needs one-to-one help; frequent errors in <br> - representing 2-digit numbers as 10 s and 1 s <br> - recording addition stories <br> - determining sums and differences | $\square$ partially accurate; makes some errors in <br> - representing 2-digit numbers as 10 s and 1 s <br> - recording addition stories <br> - determining sums and differences | $\square$ generally accurate; may make a few minor errors in - representing 2-digit numbers as 10 s and 1 s <br> - recording addition stories <br> - determining sums and differences | $\square$ accurate; very few or no errors in <br> - representing 2-digit numbers as 10 s and 1 s <br> - recording addition stories <br> - determining sums and differences |
| Problem-solving skills <br> - chooses and carries out appropriate personal strategies to create and solve addition and subtraction story problems | $\square$ needs one-to-one, step-by-step assistance to create and solve addition and subtraction story problems | $\square$ needs help to choose strategies; with limited assistance, able to create and solve addition and subtraction story problems | $\square$ chooses and uses appropriate strategies to create and solve addition and subtraction story problems | $\square$ chooses and uses effective strategies; independently able to create and solve addition and subtraction story problems; often innovative |
| Communication <br> - explains reasoning and procedures clearly, using appropriate terms (e.g., sum, difference) | unable to explain reasoning and procedures | partially explains reasoning and procedures | explains reasoning and procedures clearly | $\square$ explains reasoning and procedures clearly, confidently, and with some precision |

## Assessment Master 5

## Addition and Subtraction to 100 Rubric

## This chart can be used to make decisions about children's achievement of unit outcomes.

| Knowledge/Skills | Not yet adequate (needs assistance) | Adequate (limited assistance) | Proficient | Excellent |
| :---: | :---: | :---: | :---: | :---: |
| Conceptual understanding <br> - shows understanding of addition and subtraction processes to 100 by explaining and/or demonstrating: <br> - the effect of adding or subtracting zero <br> - personal strategies for adding and subtracting <br> - that the order in which numbers are added does not affect the sum <br> - that the order in which numbers are subtracted may affect the difference <br> - how adding and subtracting are related <br> - patterns when adding or subtracting tens | $\square$ shows very limited understanding; needs one-to-one assistance to explain and/or demonstrate: <br> - the effect of adding or subtracting zero <br> - personal strategies <br> - that the order in which numbers are added does not affect the sum <br> - that the order in which numbers are subtracted may affect the difference <br> - how adding and subtracting are related <br> - patterns when adding or subtracting 10s | $\square$ shows some understanding; with prompting and support, able to explain and/or demonstrate: <br> - the effect of adding or subtracting zero <br> - personal strategies <br> - that the order in which numbers are added does not affect the sum <br> - that the order in which numbers are subtracted may affect the difference <br> - how adding and subtracting are related <br> - patterns when adding or subtracting 10 s | $\square$ shows basic understanding; able to explain and/or demonstrate: <br> - the effect of adding or subtracting zero <br> - personal strategies <br> - that the order in which numbers are added does not affect the sum <br> - that the order in which numbers are subtracted may affect the difference <br> - how adding and subtracting are related <br> - patterns when adding or subtracting 10s | $\square$ shows in-depth understanding; independently able to demonstrate: <br> - the effect of adding or subtracting zero <br> - personal strategies <br> - that the order in which numbers are added does not affect the sum <br> - that the order in which numbers are subtracted may affect the difference <br> - how adding and subtracting are related <br> - patterns when adding or subtracting 10s |
| Procedural knowledge <br> - adds 1- and 2-digit numbers (to 100) <br> - subtracts 1 - and 2-digit numbers (to 100) | - needs one-to-one help; makes frequent errors in: <br> - adding (to 100) <br> - subtracting (1-digit and 2-digits only) | $\square$ partially accurate; some errors in: <br> - adding (to 100) <br> - subtracting (1-digit and 2-digits only) | $\square$ generally accurate; may make a few minor errors in: <br> - adding (to 100) <br> - subtracting (1-digit and 2-digits only) | $\square$ accurate; very few or no errors in: <br> - adding (to 100) <br> - subtracting (1-digit and 2-digits only) |
| Problem-solving skills <br> - chooses and carries out personal strategies to create and solve addition and subtraction problems (including missing minuends, addends, subtrahends) | needs assistance to choose and carry out appropriate problemsolving strategies | with limited assistance, chooses and carries out some appropriate problemsolving strategies | chooses and carries out appropriate problem-solving strategies | $\square$ chooses and carries out appropriate and effective problemsolving strategies in a variety of contexts; may be innovative |
| Communication <br> - explains reasoning and procedures clearly, using appropriate terms (e.g., zero, sum, difference) | unable to explain reasoning and procedures | $\square$ <br> partially explains reasoning and procedures | $\square$ explains reasoning and procedures clearly | $\square$ explains reasoning and procedures clearly, confidently, and with some precision |

Name:
Date:
Assessment Master 4 Performance Task Rubric

| Knowledge/Skills | Not yet adequate (needs assistance) | Adequate (limited assistance) | Proficient | Excellent |
| :---: | :---: | :---: | :---: | :---: |
| Conceptual understanding <br> - chooses and justifies attributes for sorting <br> - explains process of construction <br> - explains sorting rule | shows very limited understanding; needs one-to-one assistance to <br> - justify choice of attributes <br> - explain constructions <br> - explain sorting rule | shows some understanding; with prompting and support, able to <br> - justify choice of attributes <br> - explain constructions <br> - explain sorting rule | shows basic understanding; able to <br> - justify choice of attributes <br> - explain constructions <br> - explain sorting rule | shows in-depth understanding; independently able to <br> - justify choice of attributes <br> - explain constructions <br> - explain sorting rule |
| Procedural knowledge <br> - sorts by 2 geometric attributes <br> - identifies 3-D objects used in spaceship and own structure <br> - identifies 2-D shapes as part of 3-D objects | needs one-to-one help; makes frequent errors in <br> - sorting by 2 geometric attributes <br> - identifying 3-D objects <br> - identifying 2-D shapes | $\square$ partially accurate; makes some errors in <br> - sorting by 2 geometric attributes <br> - identifying 3-D objects <br> - identifying 2-D shapes | generally accurate; may make a few minor errors in <br> - sorting by 2 geometric attributes <br> - identifying 3-D objects <br> - identifying 2-D shapes | $\square$ accurate; very few or no errors in <br> - sorting by 2 geometric attributes <br> - identifying 3-D objects <br> - identifying 2-D shapes |
| Problem-solving skills <br> - uses suitable strategies to construct 3-D objects and use them to represent a spaceship | $\square$ needs one-to-one, step-by-step assistance to <br> - construct 3-D objects <br> - use 3-D objects to represent a spaceship | $\square$ needs help to choose strategies; with limited assistance, able to <br> - construct 3-D objects <br> - use 3-D objects to represent a spaceship | chooses and uses appropriate strategies to <br> - construct 3-D objects <br> - use 3-D objects to represent a spaceship | $\square$ chooses and uses effective strategies; may offer more than 1 solution to <br> - construct 3-D objects <br> - use 3-D objects to represent a spaceship |
| Communication <br> - explains his or her reasoning and procedures clearly | unable to explain his or her reasoning and procedures | partially explains his or her reasoning and procedures | $\square$ explains his or her reasoning and procedures clearly | explains his or her reasoning and procedures clearly, confidently, and with some precision |

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## Assessment Master 5 <br> Geometry Rubric

This chart can be used to make decisions about children's achievement of unit outcomes.

| Knowledge/Skills | Not yet adequate (needs assistance) | Adequate (limited assistance) | Proficient | Excellent |
| :---: | :---: | :---: | :---: | :---: |
| Conceptual understanding <br> - shows understanding by: <br> - sorting, describing, comparing, and constructing objects and shapes <br> - recognizing that a given 2-D shape or 3-D object can have different dimensions and orientations (e.g., a triangle can be any size or orientation and still be a triangle) <br> - finding 3-D objects in the environment <br> - relating 2-D shapes to 3-D objects | $\square$ shows little or no understanding that: - 3-D objects and 2-D shapes have multiple attributes that can be used to sort, describe, compare, and construct them <br> - a given 2-D shape or 3-D object can have different orientations and dimensions <br> - 3-D objects are part of our everyday environment <br> - 3-D objects have parts similar to 2-D shapes | shows partial understanding that: - 3-D objects and 2-D shapes have multiple attributes that can be used to sort, describe, compare, and construct them <br> - a given 2-D shape or 3-D object can have different orientations and dimensions <br> - 3-D objects are part of our everyday environment <br> - 3-D objects have parts similar to 2-D shapes | shows understanding that: - 3-D objects and 2-D shapes have multiple attributes that can be used to sort, describe, compare, and construct them <br> - a given 2-D shape or 3-D object can have different orientations and dimensions <br> - 3-D objects are part of our everyday environment <br> - 3-D objects have parts similar to 2-D shapes | $\square$ shows in-depth understanding, in varied contexts, that: - 3-D objects and 2-D shapes have multiple attributes that can be used to sort, describe, compare, and construct them <br> - a given 2-D shape or 3-D object can have different orientations and dimensions <br> - 3-D objects are part of our everyday environment <br> - 3-D objects have parts similar to 2-D shapes |
| Procedural knowledge <br> - identifies common attributes in a presorted set (2 attributes) <br> - identifies common attributes of triangles, squares, rectangles, circles, cubes, spheres, cones, cylinders, and pyramids <br> - sorts objects and shapes (2 attributes) <br> - names 2-D faces of a 3-D object | $\square$ often makes major errors/omissions in: - identifying common attributes (sorting rule) <br> - sorting by 2 attributes <br> - identifying common attributes of given 2-D shapes and 3-D objects <br> - naming faces of a 3-D object | $\square$ partially accurate; makes frequent minor errors/omissions in: - identifying common attributes (sorting rule) <br> - sorting by 2 attributes <br> - identifying common attributes of given 2-D shapes and 3-D objects <br> - naming faces of a 3-D object | $\square$ generally accurate; makes few errors/omissions in: - identifying common attributes (sorting rule) <br> - identifying common attributes of given 2-D shapes and 3-D objects <br> - sorting by 2 attributes <br> - naming faces of a 3-D object | $\square$ accurate; rarely make errors/omissions in: - identifying common attributes (sorting rule) <br> - identifying common attributes of given 2-D shapes and 3-D objects <br> - sorting by 2 attributes <br> - naming faces of a 3-D object |
| Problem-solving skills <br> - uses appropriate strategies to construct and represent given 3-D objects (e.g., with modelling clay) and 2-D shapes (e.g., geoboard, dot paper) | may be unable to: <br> - construct a given 3-D object <br> - construct a given 2-D shape <br> - represent a given 2-D shape pictorially | with some help, uses appropriate strategies to: <br> - construct a given 3-D object <br> - construct a given 2-D shape <br> - represent a given 2-D shape pictorially | uses appropriate strategies to: <br> - construct a given 3-D object <br> - construct a given 2-D shape <br> - represent a given 2-D shape pictorially | $\square$ uses appropriate, often innovative, strategies to: <br> - construct a given 3-D object <br> - construct a given 2-D shape <br> - represent a given 2-D shape pictorially |
| Communication <br> - uses simple geometric language (e.g., corner, curved, cube, circle) | $\square$ unable to describe shapes and objects | with prompting, partially describes shapes and objects; often vague | $\square$ provides simple descriptions of shapes and objects | provides clear and often specific descriptions of shapes and objects |

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## Assessment Master 4 Performance Task Rubric

| Knowledge/Skills | Not Yet Adequate (needs assistance) | Adequate (limited assistance) | Proficient | Excellent |
| :---: | :---: | :---: | :---: | :---: |
| Conceptual understanding <br> - formulates questions that can be answered by collecting data <br> - interprets data to answer questions <br> - draws conclusions about the information presented in pictographs and concrete graphs | $\square$ shows very limited understanding of data analysis; needs one-to-one assistance to: - formulate appropriate questions <br> - interpret data <br> - draw conclusions from a graph | $\square$ shows some understanding of data analysis; with prompting and support, able to: <br> - formulate appropriate questions <br> - interpret data <br> - draw conclusions from a graph | $\square$ shows basic understanding of data analysis; able to: <br> - formulate appropriate questions <br> - interpret data <br> - draw conclusions from a graph | shows in-depth understanding of data analysis; independently able to: <br> - formulate appropriate questions <br> - interpret data <br> - draw conclusions from a graph |
| Procedural knowledge <br> - constructs a concrete graph using the cards provided <br> - constructs a pictograph using a symbol of his choice <br> - collects and organizes information using concrete objects, tallies, checkmarks, charts, or lists | Needs one-to-one help; frequent errors in: <br> - constructing a concrete graph <br> - constructing a pictograph <br> - collecting and organizing information | partially accurate; makes some errors in: <br> - constructing a concrete graph <br> - constructing a pictograph <br> - collecting and organizing information | $\square$ generally accurate; may make a few minor errors in: <br> - constructing a concrete graph <br> - constructing a pictograph <br> - collecting and organizing information | $\square$ accurate; very few or no errors in: <br> - constructing a concrete graph <br> - constructing a pictograph <br> - collecting and organizing information |
| Problem-solving skills <br> - makes and carries out a plan to gather, organize, and interpret data to answer a question or solve a problem of her own choice | $\square$ needs one-to-one, step-by-step assistance to make and carry out an appropriate plan | $\square$ needs help to choose strategies; with limited assistance, able to make and carry out an appropriate plan | $\square$ chooses and uses appropriate strategies to make and carry out an appropriate plan | $\square$ chooses and uses effective strategies; independently able to make and carry out an effective plan; often innovative |
| Communication <br> - explains his reasoning and procedures clearly, using appropriate terms (e.g., chart, data, pictograph) | unable to explain his reasoning and procedures | partially explains his reasoning and procedures | I explains his reasoning and procedures clearly | I explains his reasoning and procedures clearly, confidently, and with some precision |

This chart can be used to make decisions about children's achievement of unit outcomes.

| Knowledge/Skills | Not yet adequate (needs assistance) | Adequate <br> (limited assistance) | Proficient | Excellent |
| :---: | :---: | :---: | :---: | :---: |
| Conceptual understanding <br> - shows understanding of data and graphs by: <br> - formulating questions that can be answered by collecting data <br> - interpreting data to answer questions <br> - drawing conclusions about the information presented in a graph <br> - describing attributes of concrete graphs and pictographs | $\square$ shows very limited understanding; needs one-to-one assistance to: <br> - formulate questions <br> - interpret data to answer questions <br> - draw conclusions about the information in a graph <br> - describe attributes of concrete graphs and pictographs | $\square$ shows some understanding; with prompting and support, able to: <br> - formulate questions <br> - interpret data to answer questions <br> - draw conclusions about the information in a graph <br> - describe attributes of concrete graphs and pictographs | $\square$ shows basic <br> understanding; able to: <br> - formulate questions <br> - interpret data to answer questions <br> - draw conclusions about the information in a graph <br> - describe attributes of concrete graphs and pictographs | shows in-depth understanding; independently able to: <br> - formulate questions <br> - interpret data to answer questions <br> - draw conclusions about the information in a graph <br> - describe attributes of concrete graphs and pictographs |
| Procedural knowledge <br> - collects and organizes data using concrete objects, tallies, checkmarks, charts, or lists <br> - constructs concrete graphs <br> - constructs pictographs | needs one-to-one help; makes frequent errors in: <br> - collecting and organizing data <br> - constructing concrete graphs <br> - constructing pictographs | partially accurate; makes some errors in: <br> - collecting and organizing data <br> - constructing concrete graphs <br> - constructing pictographs | $\square$ generally accurate; may make a few minor errors in: <br> - collecting and organizing data <br> - constructing concrete graphs <br> - constructing pictographs | accurate; very few or no errors in: <br> - collecting and organizing data <br> - constructing concrete graphs <br> - constructing pictographs |
| Problem-solving skills <br> - gathers and interprets data to answer questions <br> - solves a given problem by constructing and interpreting a concrete graph or pictograph | $\square$ needs one-to-one, step-by-step assistance to: <br> - gather and interpret data to answer questions <br> - solve problems by constructing and interpreting graphs | $\square$ needs help to choose strategies; with limited assistance, able to: <br> - gather and interpret data to answer questions <br> - solve problems by constructing and interpreting graphs | $\square$ chooses and uses appropriate strategies to: <br> - gather and interpret data to answer questions <br> - solve problems by constructing and interpreting graphs | chooses and uses effective strategies; often innovative; may add complexity to assigned tasks; independently able to: <br> - gather and interpret data to answer questions <br> - solve problems by constructing and interpreting graphs |
| Communication <br> - explains her reasoning and procedures clearly, using appropriate terms (e.g., graph, data) | unable to explain her reasoning and procedures | partially explains her reasoning and procedures | $\square$ explains her reasoning and procedures clearly | explains her reasoning and procedures clearly, confidently, and with some precision |

