

(V) MATHEMATICS DOMAIN



 comparisons, f) number-after equals one more (Frye et.al.,2013).
 connections to math. As children gain comfort with concrete representations, they will begin to use pictorial representations which prepares them for abstract representations.

- Concrete representation: the child counts to five to join a set of two objects and a set of three objects
- Pictorial representation: the child uses a sketch to represent the joining of a set of two objects and a set of three objects

Abstract representation: the child uses math symbols to represent the joining of two sets $2+3=5$.




 more buttons do we need on his shirt?" All children should be allowed adequate wait time for responses.



 measurement, and classification and patterns.
 possible, with math practice conducted in both the children's native language and English.

| Domain | Skill | Outcome | Breakout |
| :---: | :---: | :---: | :---: |
| (V) MATHEMATICS DOMAIN | (A) Counting Skill. Prekindergarten-aged children show basic counting readiness and counting by using nonverbal and verbal means. | (1) Child knows that objects, or parts of an object, can be counted | (a) Child knows that objects, or parts of an object, can be counted |


| Domain | Skill | Outcome | Breakout |
| :---: | :---: | :---: | :---: |
| (V) MATHEMATICS DOMAIN | (A) Counting Skill | (2) Child uses words to rote count from 1 to 30 | (a) Child uses words to rote count from 1 to 30 |
| (V) MATHEMATICS DOMAIN | (A) Counting Skill | (3) Child counts 1-10 items, with one count per item | (a) Child counts 1-10 items, with one count per item |
| (V) MATHEMATICS DOMAIN | (A) Counting Skill | (4) Child demonstrates that the order of the counting sequence is always the same, regardless of what is counted $\qquad$ | (a) Child demonstrates that the order of the counting sequence is always the same, regardless of what is counted $\qquad$ |
| (V) MATHEMATICS DOMAIN | (A) Counting Skill | (5) Child counts up to 10 items and demonstrates that the last count indicates how many items were counted | (a) Child counts up to 10 items |
| (V) MATHEMATICS DOMAIN | (A) Counting Skill | (5) Child counts up to 10 items and demonstrates that the last count indicates how many items were counted | (b) Child demonstrates that the last count indicates how many items were counted |
| (V) MATHEMATICS DOMAIN | (A) Counting Skill | (6) Child demonstrates understanding that when counting, the items can be chosen in any order | (a) Child demonstrates understanding that when counting, the items can be chosen in any order |
| (V) MATHEMATICSDOMAIN | (A)Counting Skill | (7) Child uses the verbal ordinal terms | (a) Child uses the verbal ordinal terms |
| (V) MATHEMATICS DOMAIN | (A) Counting Skill | (8) Child verbally identifies, without counting, the number of objects from 1 to 5 | (a) Child verbally identifies, without counting, the number of objects from 1 to 5 |
| (V) MATHEMATICS DOMAIN | (A) Counting Skill | (9) Child recognizes one-digit numerals, 0-9 | (a) Child recognizes one-digit numerals, 0-9 |
| (V) MATHEMATICS DOMAIN | (B) Adding To/Taking Away Skills. Prekindergarten children use informal and formal strategies to make a collection larger or smaller. This includes teacher showing (modeling) children a mathematical behavior and asking the children to do the same. | (1) Child uses concrete objects, creates pictorial models and shares a verbal word problem for adding up to 5 objects | (a) Child uses concrete objects for adding up to 5 objects |
| (V) MATHEMATICS DOMAIN | (B) Adding To/Taking Away Skills | (1) Child uses concere objects, creates pictorial models and shares a verbal word problem for adding up to 5 objects $\qquad$ | (b) Child creates pictorial models for adding up to 5 objects. |
| (V) MATHEMATICS DOMAIN | (B) Adding To/Taking Away Skills | (1) Child uses concrete objects, creates pictorial models and shares a verbal word problem for adding up to 5 objects $\qquad$ | (c) Child shares a verbal word problem for adding up to 5 objects |
| (V) MATHEMATICS DOMAIN | (B) Adding To/Taking Away Skills | (2) Child uses concrete models or makes a verbal word problem for subtracting $0-5$ objects from a set | (a) Child uses concrete models or makes a verbal word problem for subtracting $0-5$ objects from a set |
| (V) MATHEMATICS DOMAIN | (B) Adding To/Taking Away Skills |  items into equal groups | (a) Child use informal strategies to separate up to 10 items into equal groups |
| (V) MATHEMATICS DOMAIN | (C) Geometry and Spatial Sense Skills. Prekindergarten children recognize, describe, and name attributes of shapes. | (1) Child names common shapes | (a) Child names common shapes |
|  | (c) Geoome---------------------------- | (2) Child cre--------------- | (a) Child create------------ |


| Domain | Skill | Outcome | Breakout |
| :---: | :---: | :---: | :---: |
| (V) MATHEMATICS DOMAIN | (C) Geometry and Spatial Sense Skills | (3) Child demonstrates use of location words (such as "over," "under," <br> "above," "on," "beside," "next to," "between," "in front of," "near," "far," etc.) | (a) Child demonstrates use of location words |
| (V) MATHEMATICS DOMAIN | (C) Geometry and Spatial Sense Skills | (4) Child slides, flips, and turns shapes to demonstrate that the shapes remain the same | (a) Child slides shapes to demonstrate that the shapes remain the same |
| (V) MATHEMATICS DOMAIN | (C) Geometry and Spatial Sense Skills | (4) Child slides, flips, and turns shapes to demonstrate that the shapes remain the same | (b) Child flips shapes to demonstrate that the shapes remain the same |
| (V) MATHEMATICS DOMAIN | (C) Geometry and Spatial Sense Skills | (4) Child slides, flips, and turns shapes to demonstrate that the shapes remain the same | (c) Child turns shapes to demonstrate that the shapes remain the same |
| (V) MATHEMATICS DOMAIN | (D) Measurement Skillis. Prēkindergarten children verbaily describe or demonstrate attributes of persons or objects, such as length, area, capacity, or weight. | (1) Child recognizes and compares heights or lengths of people or objects | (a) Child recognizes heights or lengths of people or objects |
| (V) MATHEMATICS DOMAIN | (D) Measurement Skills | (1) Child recognizes and compares heights or lengths of people or objects | (b) Child compares heights or lengths of people or objects |
| (V) MATHEMATICS DOMAIN | (D) Measurement Skills | (2) Child recognizes how much can be placed within an object | (a) Child recognizes how much can be placed within an object |
| (V) MATHEMATICS DOMAIN | (D) Measurement Skills | (3) Child informally recognizes and compares weights of objects or people | (a) Child informally recognizes weights of objects or people |
| (V) MATHEMATICS DOMAIN | (D) Measurement Skills | (3) Child informally recognizes and compares weights of objects or people | (b) Child informally compares weights of objects or people |
| (V) MATHEMATICS DOMAIN | (D) Measurement Skills | (4) Child uses language to describe concepts associated with the passing of time | (a) Child uses language to describe concepts associated with the passing of time |
| (V) MATHEMATICS DOMAIN | (E) Classification and Patterns Skills. Prekindergarten children sort and classify objects using one or more attributes. They begin to use attributes of objects to duplicate and create patterns (typically referred to as algebraic thinking such as described in NCTM focal points.) With formal instruction, they will participate in creating and using real/pictorial graphs | (1) Child sorts objects that are the same and different into groups and uses language to describe how the groups are similar and different | (a) Child sorts objects that are the same into groups |
| (V) MATHEMATICS DOMAIN | (E) Classification and Patterns Skills | (1) Child sorts objects that are the same and different into groups and uses language to describe how the groups are similar and different | (b) Child sorts objects that are different into groups |
| (V) MATHEMATICS DOMAIN | (E) Classification and Patterns Skills | (1) Child sorts objects that are the same and different into groups and uses language to describe how the groups are similar and different | (c) Child uses language to describe how the groups are similar |
| (V) MATHEMATICS DOMAIN | (E) Classification and Patterns Skills | (1) Child sorts objects that are the same and different into groups and uses language to describe how the groups are similar and different | (d) Child uses language to describe how the groups are different |
| (V) MATHEMATICS DOMAIN | (E) Classification and Patterns Skills | (2) Child collects data and organizes it in a graphic representation | (a) Child collects data |
| (V) MATHEMATICS DOMAIN | (E) Classification and Patterns Skills | (2) Child collects data and organizes it in a graphic representation | (b) Child organizes [data] in a graphic representation |


| Domain | Skill | Outcome | Breakout |
| :---: | :---: | :---: | :---: |
| (V) MATHEMATICS DOMAIN |  | (3) Child recognizes and creates patterns | (a) Child recognizes patterns |
| (V) MATHEMATICS DOMAIN | (E) Classification and Patterns skills | (3) Child recognizes and creates patterns | (b) Child creates patterns |

