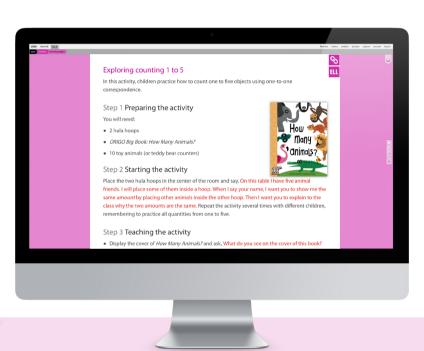
# **Stepping Stones Pre-K**

# Teacher Edition Module 3, Topic 2 Sample

Number: Practicing quantity recognition





This sample is from the **ORIGO Stepping Stones Pre-K** program.

The Teacher Edition resource (available in print and digital)
provides access all lesson plans, teaching tools, and content for

ORIGO Stepping Stones Pre-K.

Learn more at origoeducation.com/stepping-stones-pre-k



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Included in this sample

# **TOPIC 2 CONTENTS**

# **Number: Practicing quantity recognition**

## Learning targets

- 3B Count up to 5 objects in a group
- 3C Subitize up to 5 objects in a group

## **Topic contents**

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# **Number: Practicing quantity recognition**

## Whole group 1

# Investigating quantities 1 to 5

In this activity, children count a quantity using both tangible and non-tangible objects.

# **Step 1** Preparing the activity

Each group of children will need:

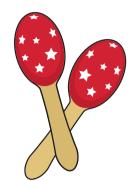
• 1 maraca (or a small plastic bottle filled with uncooked rice)

Each child will need:

5 connecting cubes

# **Step 2** Starting the activity

Distribute the connecting cubes. Ask, Can anyone show me how to count from one to five? Invite a child to count aloud to the class. Say, I am going to say a number aloud. I want you to count that many connecting cubes and place them on your fingers. When the cubes are on your fingers, I would like you to put your hand in the air. For each number, select a child to count their cubes aloud. Provide enough examples so every child has the opportunity to count aloud to the group. Use the number names out of order when calling the number.



# **Step 3** Teaching the activity

Say, I am holding the musical instrument called a maraca. It makes a noise that sounds like this. Shake the instrument. Say, We are going to practice listening to the number of shakes I make with my maraca. When I shake the maraca, I want you to count aloud. Repeat the activity several times. This activity is crucial for children to start acquiring the skill of abstraction.

Organize the children into groups and distribute the maracas. Encourage them to continue the activity. As they are doing so, walk around and listen to the children to highlight successes and intervene if necessary.

# Step 4 Reflecting on the work

Say, *Today we created quantities from one to five.* Prompt the children to sit in a circle for Reflection Time. Encourage them to share their reflections with the group. Provide an example if necessary.

#### **ELL**

Encourage ELL children to count in their first language, then in English. Pair each child with a fluent English-speaking group.

#### Whole group 2

# Identifying quantities 1 to 5

In this activity, children identify quantities of one to five.

## **Step 1** Preparing the activity

You will need:

- ORIGO Big Book: How Many Animals?
- 1 set of domino dot cards 1 to 5 from *The Math Case:* Green set 5
- 1 maraca (or a small plastic bottle filled with uncooked rice)

# **Step 2 Starting the activity**

Invite the children to stand in a circle. Say, *Each of you will have the chance to shake the maraca for the class. When it is your turn, you may shake it 1, 2, 3, 4, or 5 times. After you are finished, we will jump that amount of times to match.*Demonstrate the activity. The maraca is passed around the circle, with each child having a turn at shaking the maraca. Have the children count aloud each jump they make.

# Step 3 Teaching the activity

Say, In the previous activity, we practiced counting from one to five. Now, we are going to start learning how to recognize a quantity from one to five. Has anyone ever heard the word quantity? It means how many are in a group. Display the cover of How Many Animals? Say, In this book we found different groups, or quantities, of animals. Take a picture walk through the book, stopping at page 13. Point out the quantity of four lions, two chickens, and so on. As you find a new quantity, display the dot card to match the quantity. Ask the following questions:

How many (lions) do you see?

How many dots do you see?

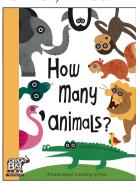
Do you see the same quantity of dots as (lions)?

What is the same about both pictures?

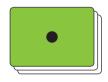
# Step 4 Reflecting on the work

Say, *Today we recognized quantities from one to five.* Prompt the children to sit in a circle for Reflection Time. Encourage them to share their reflections with the group. Provide an example if necessary.

How Many Animals?



Green set 5



#### ELL

Allow time for the children to discuss the word *quantity* with another child.



# **Number: Practicing quantity recognition**

## **Small group activities**

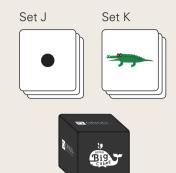
#### 1. Matching quantities

In this activity, children select the number of dots to match a pictorial quantity.

You will need:

- 2 ORIGO Big Cubes
- ORIGO Big Cubes Cards: sets J and K (includes one wildcard per set) placed in the cubes

Say, Today we are going to see if we can roll a match. The goal of this game is to roll the same number of dots and the same quantity — matching quantities of dots and animals. Show the wildcard symbol and say, If you roll this wildcard, you can roll the cube again. Roll both cubes and say, Look at the cubes. Say the amounts aloud, then count to see if you are correct. How many dots did I roll? (Three.) How many animals did I roll? (Two.) Are both quantities the same? (No.) How do I know they are not the same? Demonstrate the activity again and ask the same questions, until you roll a match. Encourage the children to roll the cubes. Encourage them to say the numbers aloud first, then count to see if they are correct.



#### 2. Blowing bubbles

In this activity, children practice counting and matching a quantity shown in a picture.

You will need:

- 1 ORIGO Big Cube
- ORIGO Big Cubes Cards: set J

Each child will need:

- bubble mixture and bubble wand
- sheets of paper towel

Say, Today we are going to blow bubbles. Raise your hand if you have blown bubbles before. I am going to show you how I take a breath to blow bubbles. Demonstrate the activity, distribute the resources, and allow the children to practice. Say, When it is your turn, you roll this cube. The number you roll will be the quantity of breaths we will take to blow bubbles. If you roll the wildcard symbol, you can choose any number from one to five. Demonstrate. Encourage the children to identify whether the number of breaths they took to blow bubbles matches the number on the cube. Encourage the children to engage in the activity for several rounds. As each round progresses, discuss how each group of breaths is showing a quantity.

# Learning center activities

#### 1. Hit the target

In this activity, children select the number of cubes that match a quantity on the target.

Each group of children will need:

- 1 set of domino dot cards 1 to 5 from *The Math Case:* Green set 5
- 1 small beanbag or similar for tossing

Each child will need:

- access to connecting cubes
- 1 plastic cup

Place the domino cards in an array on the floor. Distribute the resources and say, You are going to fill your cup with cubes. When it is your turn, you toss the beanbag onto a domino card. Stand about one foot from the target to demonstrate. Then say, Look at the number of dots your toss landed on and place the same number of cubes inside your cup. Keep playing until someone in the group has filled their cup. During the activity, encourage children to count aloud to practice their stable-order counting skills and cardinality.

#### 2. Under the dome

In this activity, children recognize a pictorial quantity and represent that number with materials.

You will need:

• 1 permanent marker

Each pair of children will need:

- 5 plastic containers with dot arrangements for 1–5 marked on the bottom
- counters

Organize the children into pairs and distribute the resources. Say, *You are going to work in pairs to practice matching quantities.* Turn a set of containers upside down and say, *Look at the number of dots on each container. You will use the counters to show the quantity by placing them under the container.*Demonstrate the activity. Ask one child to put counters under a container of their choice and explain their thinking to the other child. They check that the quantities match. Prompt the children to alternate roles and repeat the activity. Use numbers up to ten if a child is ready to work with a greater amount.







# **Number: Practicing quantity recognition**

## **Community center activities**

#### 1. Monster faces

In this activity, children create a monster face by matching the pictorial quantity selected with the number of facial features. Before the activity, create a few examples of different monster faces for children to use as a reference.

Each group of children will need:

- various craft materials to make monster faces
- 1 set of domino dot cards from *The Math Case*: Green set 5

Each child will need:

- 1 paper plate
- scissors and glue

In the Craft Center, display your monster face models for the children to see. Say, On this monster face there are (three noses) and (four eyes). On this monster face there is (one eye) and (four mouths). You are going to create your monster face to match the quantities on the cards. First you turn over one card, then you choose to show that many eyes, ears, noses, or mouths. Distribute the resources. Mix the cards and place them facedown in a pile. Then, one at a time, have the children turn over a card and use that quantity as the (eyes) on their monster face. They then turn over the next card for the next facial feature. Children should create the following monster features: eye/s, nose/s, mouth/s, and ear/s. Display the monster faces around the classroom.

### 2. Go fishing

In this activity, children represent dot quantities with cubes.

You will need:

- 1 set of fish cards from ORIGO Stepping Stones Pre-K Activity Book page 7
- large paperclips (*Note:* Make the fish by attaching a paperclip to the back of each card.)
- 1 stick, about 2 feet long
- 1 piece of yarn
- 1 piece of magnetic tape (*Note:* To make the fishing pole, tie the yarn to one end of the stick, then attach the magnetic tape to the other end of the yarn.)

Each group of children will need:

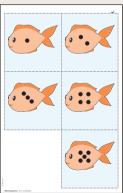
- 1 bucket
- connecting cubes

In the Dramatic Play Center, place the fish facedown inside the bucket. Organize the children into groups and distribute the resources. Ask the children to take turns to go fishing. If they catch a fish, everyone in the group uses the cubes to make a quantity to match the dots on the fish. When all fish have been caught, place them back in the bucket to play again.

Green set 5



Activity Book, p. 7



#### **Focus**

#### Counting

Strong counting abilities support a firm grasp of numeracy before children move on to more complex number concepts. Children encounter each of the following counting principles throughout this module.

- One-to-one principle: Counting each object in a group once and only once.
- Stable-order principle: Repeating number names in a specific sequence (which does not need to be correct, only consistent).
- Cardinality principle: The last number said describes the total quantity in the group.
- Abstraction principle: Anything can be counted, tangible or intangible.
- Order-irrelevance principle: Objects can be counted in any order so long as no object in a group is skipped and no number is used more than once.

Though children do not need to master these skills until the end of the program, they do need to become familiar with each one to accomplish rapid counting development.

A note on zero: For young children to understand the concept of zero, they first need to understand the meaning of a quantity, how to represent a quantity, and which numeral is the symbolic representation of that quantity. Zero is only introduced after children understand and internalize the idea of quantity.

#### Number vs. numeral

For children to have a firm grasp of what a number represents, they must first understand the *quantity* aspect of number. This should progress naturally from counting objects to seeing pictorial quantities to recognizing dot arrangements, to eventually linking these quantities to the number symbol. Only after children understand the meaning of quantity should they be shown the corresponding numeral. Because the concept of numeral is so abstract, showing numerals to young children too early may create misconceptions or misunderstandings. At this age, children are not expected to write the numerals because they are physically and developmentally too young to accomplish this. They are only expected to recognize the number symbol and represent its quantity.

#### Subitizing

Subitizing is the act of instantly recognizing a quantity without having to count each item in the quantity one by one. Subitizing is critical in building numeracy skills that support abstract number concepts and strategies in later years. There are two different types of subitizing: perceptual and conceptual. Perceptual subitizing is when a child is able to automatically see a given quantity, usually no more than three at this age. Conceptual subitizing is when the child has to mentally rearrange a quantity into recognizable patterns before automatically seeing the given quantity.



Children develop an understanding of number by representing quantities using a variety of resources.

# Research into practice

Young children come to school with many preconceived ideas about the concept of number, including the idea of quantity and symbolic representations. They gather such information from everyday life and even TV shows or phone apps. Each child's idea of number may be different depending on their experiences. Regardless of their background knowledge, research shows that children benefit from learning experiences — involving sorting, classifying, matching, comparing, and eventually ordering numbers — by using both quantity and symbolic representations. Each of these stages is critical for attaining good number sense. Research also shows that these learning experiences support the ability to count rationally and master the five counting principles, along with supporting efforts for different thinking strategies linked to addition and subtraction.

In this module, children begin to learn about the numbers one, two, three, four, and five. Children experience matching quantities, creating quantities, and linking those quantities to the symbolic representation (numerals). Children also start the process of subitizing (immediately recognizing a collection without counting) numbers up to five, by seeing it in both concrete and picture form, and structured and unstructured arrangements.

#### Reading list

Baroody, Arthur J. and Jesse L. M. Wilkins. 1999. "The Development of Informal Counting, Number, and Arithmetic Skills and Concepts." In *Mathematics in the Early Years*, edited by Juanita V. Copley, 48–65. Reston, VA: National Council of Teachers of Mathematics.

Clements, Douglas B. and Julie Sarama. 2007. "Early Childhood Mathematics Learning." In *Second Handbook of Research on Teaching and Learning Mathematics*, edited by Frank K. Lester, vol. 1, 461–555. Charlotte, NC: Information Age Publishing.

MacDonald, Beth L. and Jessica F. Shumway. 2016. "Subitizing Games: Assessing Preschoolers' Number Understanding." *Teaching Children Mathematics* 22: 340–348.



Children experience matching quantities to the symbolic representation.

## Vocabulary

Bolded vocabulary will be introduced and developed in this module.

#### Topic 1

A group of, count, five, four, groups, how many, number name, numbers, one, quantity, three, two.

#### Multi-meaning words

- The words *four* and *for* are homophones. Children can help their parents set *four* places at the dinner table or perform a dance *for* their group. The words sound the same, but have different meanings. Ensure the children are aware of the difference.
- The words *one* and *won* are homophones. Children can see *one* sun in the sky and have *won* games. The words sound the same, but have different meanings. Ensure the children are aware of the difference.
- The words *two*, *too*, and *to* are homophones. Children can help their parents count *two* bananas, they can walk *to* the park, and a friend can come *too*. The words sound the same, but have different meanings. Ensure the children are aware of the differences.

#### Topic 2

Groups, groups of, quantity.

#### Topic 3

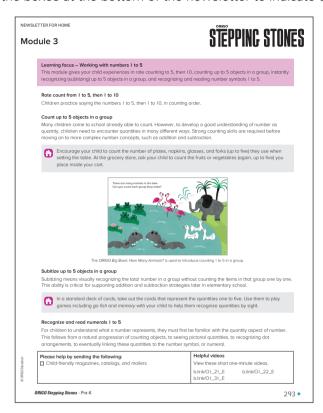
Different, domino, dot arrangements, five-frame, row, same.

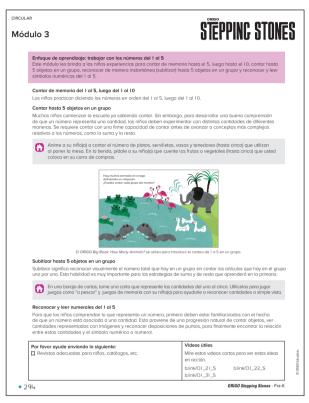
#### Topic 4

Five, four, match, one, three, two.

#### **Newsletter for home**

The content that is addressed in this module is summarized in the Newsletter found on page 293 (shown below). A Spanish language Newsletter is on page 294. You can send the Newsletter home before beginning the module. Check the boxes at the bottom of the newsletter to indicate the items you need the children to bring from home.





# Whole group resources

Resources and materials	Topic	Activity
You will need:		
ORIGO Big Poster Book 3, ORIGO Big Poster Book Song 3	1	1
5 soft toy animals	1	1
2 hula hoops	1	2
ORIGO Big Book: How Many Animals?	1 2 4	2 2 1
10 toy animals (or teddy bear counters)	1	2
1 set of domino dot cards 1 to 5 from <i>The Math Case</i> : Green set 5	2 3 4	2 1, 2 2
1 maraca (or a small plastic bottle filled with uncooked rice)	2	2
The Math Case: Yellow set 1	3	2
number cards for 1 to 5 from <i>The Math Case</i> : Green set 8	4	1, 2
number picture cards for 1 to 5 from <i>The Math Case</i> : Green set 4	4	2
Each group of children will need:		'
1 maraca (or a small plastic bottle filled with uncooked rice)	2	1
Each child will need:		
5 teddy bear counters	1	1
5 connecting cubes	2	1
1 set of fish cards from ORIGO Stepping Stones Pre-K Activity Book page 7	3	1
1 cookie sheet covered in aluminum foil	3	2
1 dollop of shaving cream placed on the covered sheet	3	2
1 set of number cards showing 1 to 5 from <i>ORIGO Stepping Stones Pre-K Activity Book</i> page 8 (see page 149 for directions)	4	2

# Small group resources

Resources and materials	Topic	Activity
You will need:	I	T
ORIGO Big Book: How Many Animals?	1 4	1 2
ORIGO Big Cubes	1 2 3 4	1 1, 2 2 1
ORIGO Big Cubes Cards: set I (includes one wildcard)	1	1
20 teddy bear counters (minimum)	1	1
ORIGO Big Cubes Cards: sets J and K (includes one wildcard per set)	2	1
ORIGO Big Cubes Cards: set J	2 3	2 2
1 set of five-frames showing quantities 1 to 5 from <i>The Math Case</i> : Green set 6	3	1
ORIGO Big Cubes Cards: set L (Note: Flip the 0 card to show the whale on the outside of the cube.)	4	1
5 toy animals	4	1
Each child will need:		
ORIGO Stepping Stones Pre-K Activity Book page 6	1	2
paint	1	2
1 cotton swab	1	2
bubble mixture and wand	2	2
sheets of paper towel	2	2
1 empty five-frame from <i>The Math Case</i> : Green set 7	3	1
5 counters	3	1
5 cubes	3	2

# Learning center resources

Resources and materials	Topic	Activity
You will need:	·	
15 star stickers	1	1
5 resealable bags, each showing 1 to 5 star stickers on the outside	1	1
number picture cards for 1 to 5 from <i>The Math Case</i> : Green set 4	1	2
1 permanent marker	2	2
1 set of domino dot cards for 1 to 5 from <i>The Math Case</i> : Green set 5	3	2
Each group of children will need:		
1 set of domino dot cards 1 to 5 from <i>The Math Case</i> : Green set 5	2	1
1 small beanbag or similar for tossing	2	1
1 magic box (see page 31 for instructions)	4	1
2 sets of matching numbers 1 to 5 in a range of materials (see page 151 for details)	4	1
1 tray	4	1
number picture cards for 1 to 5 from <i>The Math Case</i> : Green set 4	4	2
1 set of domino dot cards for 1 to 5 from <i>The Math Case</i> : Green set 5	4	2
number cards for 1 to 5 from <i>The Math Case</i> : Green set 8	4	2
Each pair of children will need:		
5 plastic containers with dot arrangements for 1–5 marked on the bottom	2	2
counters	2	2
number picture cards for 1 to 5 from <i>The Math Case</i> : Green set 4	3	1
domino dot cards from <i>The Math Case</i> : Green set 5	3	1
five-frame cards for 1 to 5 from <i>The Math Case</i> : Green set 6	3	1
Each child will need:		
5 counters	1	1
5 long lengths of string or yarn	1	2
15 beads of different shapes and sizes (minimum)	1	2
access to connecting cubes	2	1
1 plastic cup	2	1
1 small paper plate	3	2
markers or crayons	3	2
5 small counters	3	2

# **Community center resources**

Resources and materials	Topic	Activity		
You will need:	'			
1 set of fish cards from ORIGO Stepping Stones Pre-K Activity Book page 7	2	2		
large paperclips (Note: Make the fish by attaching a paperclip to the back of each card.)	2	2		
1 stick, about 2 feet long	2	2		
1 piece of yarn	2	2		
1 piece of magnetic tape (see page 136 for making the fishing pole)	2	2		
Each group of children will need:				
ORIGO Big Book: How Many Animals?	1	1		
counters	1	1		
1 device to play the recording	1	1		
headphones	1	1		
1 set of domino dot cards from <i>The Math Case</i> : Green set 5	2	1		
various crafting materials to make monster faces	2	1		
1 bucket	2	2		
connecting cubes	2	2		
5 sticker dots or strips of tape (see page 144 for instructions)	3	1		
5 bowling pins (or use plastic bottles one-fourth filled with sand)	3	1		
1 ball	3	1		
1 large sheet of paper divided into five sections, with each section labeled with a number from 1 to 5	4	2		
several child-friendly magazines, catalogs, mailers	4	2		
Each pair of children will need:				
1 set of domino dot cards from <i>The Math Case:</i> Green set 5	1	2		
15 clothespins	1	2		
markers	1	2		
1 standard cube labeled: 1, 2, 3, 3, 4, 5	3	2		
10 connecting cubes	3	2		
Each child will need:				
1 paper plate	2	1		
scissors and glue	2 4	1 2		
ORIGO Stepping Stones Pre-K Activity Book page 9 (see page 152 for instructions)	4	1		
craft supplies, such as sequins, pasta, stickers, and glue	4	1		

## Learning targets and assessment

This chart shows the options for assessing each learning target of this module.		Formative		Summative	
Standard	Learning target	Observations	Portfolio samples	Interview	
Counting and cardinality					
3A	Rote count from 1 to 5	•		1	
3B	Count up to 5 objects in a group	•	•	2	
3C	Subitize up to 5 objects in a group	•		3	
3D	Recognize and read numerals 1 to 5	•	•	3	

# Professional learning and video support



For professional learning in relation to the content of this module, select from the following videos in the *MathEd* channel within *Slate*.

BH02 Using a hands-on approach to represent numbers to 10



Short one-minute videos are frequently added to the ORIGO ONE channel within Slate.

Titles relevant to this module include:

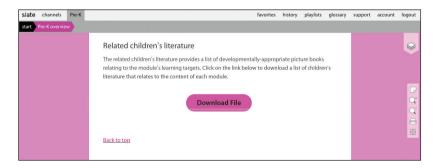
Introducing the ORIGO model for teaching concepts

Introducing the language approach for teaching mathematics

Introducing the ORIGO model for teaching skills

#### Related children's literature

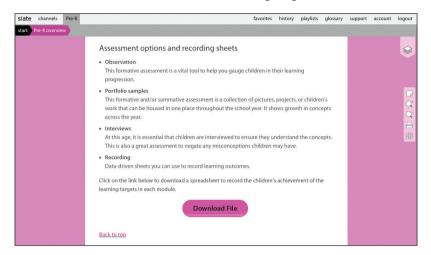
Log in to the digital *Teacher Edition* and navigate to the Pre-K overview page to download a list of children's literature that relates to the content of each module.

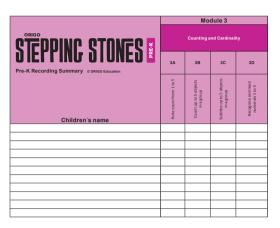




# **Assessment recording**

Log in to the digital *Teacher Edition* and navigate to the Pre-K overview page to download a spreadsheet to record the children's achievement of the learning targets in each module





Alternatively, use Blackline Masters 3.1 (individual) and 3.2 (whole class).





#### Formative assessment

#### **Observations**

Some activities are better suited than others for providing information regarding how children's understanding of concepts and skills is developing. This chart lists the best activities and shows what to look for as they unfold.

Standard	What to look for	Activity	
	Did the child consistently match a number word with an animal quantity?	Topic 1: Small group 1	
	Did the child consistently and concretely show the correct quantity represented by the dot arrangements?	Topic 1: Learning center 1	
3B	Does the child consistently match quantities?	Topic 2: Small group 1	
38	Does the child stop blowing bubbles to show the correct number quantity?	Topic 2: Small group 2	
	Does the child show understanding of one-to-one correspondence?	Topic 2: Community center 2	
	Does the child use one-to-one correspondence when counting the number of pins knocked down?	Topic 3: Community center 1	
	Can the child grab the correct amount of cubes without counting?	Topic 3: Small group 2	
3C	Does the child consistently recognize that cards show the same or different quantities without counting?	Topic 3: Learning center 1	
	Does the child consistently recognize the pictorial quantity of dots without counting?	Topic 3: Learning center 2	
25	Does the child recognize the numerals 1, 2, 3, 4, and 5 consistently?	Topic 4: Whole group 2	
3D	Does the child consistently show the correct quantity for the numeral presented?	Topic 4: Small group 1	

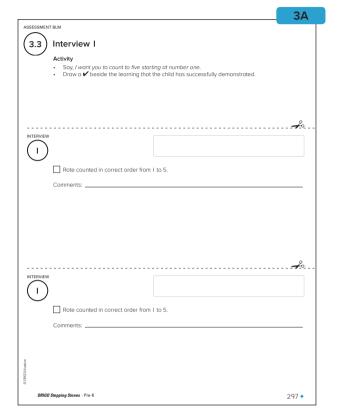
#### Portfolio samples

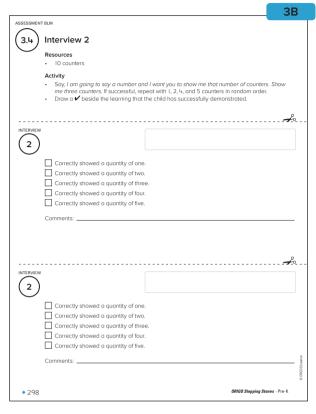
This chart lists the best activities for generating work samples that serve as suitable evidence of the learning that has occurred.

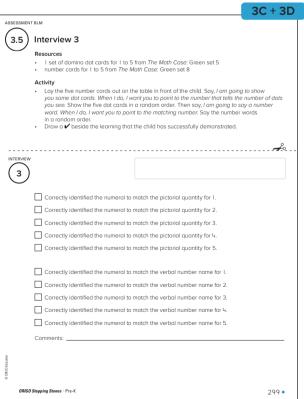
Standard	What to look for	Activity	
	Add the Activity Book pages to their portfolio.	Topic 1: Small group 2	
	Take a picture of the child's number necklace and place it inside their portfolio.	Topic 1: Learning center 2	
3B	Place the monster face inside their portfolio. If able, ask the child to describe their monster face and write their explanation on a sheet of paper.	Topic 2: Community center 1	
	Take a few pictures of their freckle faces and place them in their portfolio. If able, ask the child to describe their freckles and write their explanation on a sheet of paper.	Topic 3: Learning center 2	
3D	Take a picture of the child with various mix-and-match cards. If able, ask the child to describe their mix-and-match cards and write their explanation on a sheet of paper.	Topic 4: Learning center 2	
	Take the fancy numerals and place them in their portfolio. If able, ask the child to describe their numerals and write their explanation on a sheet of paper.	Topic 4: Community center 1	

#### Summative assessment

#### Interviews (Assessment BLMs 3.3-3.5)







#### **Routines**

These routine activities can be used to support smooth transitions between activities in the daily schedule.

#### 1. Hop, skip, and a jump

You will need:

• number picture cards for 1 to 5 from *The Math Case*: Green set 4

When children are lining up to go to lunch or recess, ask them to do various physical activities, such as hopping, skipping, or jumping, to get into line. Hold up a quantity card and say, *I want you to count the quantity and (hop) that many times towards the line*. Repeat with other cards until all children are in line.

# Green set 4

#### 2. Count with me

You will need:

- 1 set of domino dot cards from *The Math Case*: Green set 5
- number cards for 1 to 5 from The Math Case: Green set 8

When transitioning between Learning centers, show the children a dot or number card and say, *If I show you a quantity or number 3, I want you count aloud to three as you walk to your next center. Count like this, 1, 2, 3, 1, 2, 3, 1, 2, 3.*Choose a different dot or number card for each transition. As the children become comfortable with the counting, it can be extended to ten, then 15.



Green set 8

