

This is a one-week excerpt from the Starfall Kindergarten Mathematics Teacher's Guide.
If you have questions or comments, please contact us.
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## Let's Get Started



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## Let's Get Started

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## Week 1 Summary

The children will become acquainted with the Gathering Routine, which incorporates the monthly calendar, weather prediction, number line, place value, and hundreds day chart. The Gathering Routine is a key component of the Starfall Math Program and will be used daily. This routine must begin on the first day of school. The children will also:

- Learn how to observe, predict, and chart the weather
- Be introduced to the concept of place value
- Practice counting using the number line
- Explore negative numbers and number concepts
- Learn about basic shapes and their attributes
- Measure using rectangular lengths
- Become familiar with cooperative learning activities


## Classroom Preparation

Prepare a blank classroom calendar for the month and have the name of the month and days and the numerals 1 to 31 available. Do not assemble the calendar. The children will do this together.

Display the Weather Picture Cards attached to chart paper or on a whiteboard, arranged to allow a space to draw tally marks under each.

Mount the -5 to 180 Classroom Number Line around the classroom where it is easily
 observable. Cover each number above zero with a sticky note.


Prepare a hundreds day chart by placing numbered cards from 1 to 100 face down in the chart. The children will turn a card each day to gradually reveal all 100 numbers in sequence.

Have rubber bands and a container of sticks, stirrers, craft sticks, or straws available. Label three containers to create a ones container, a tens container, and a hundreds container.

Be prepared to introduce Backpack Bear to the children. He will be a member of the class for the year.

Please refer to the Math Read Me First for further information regarding classroom setup.

## DAY 1

Duplicate a copy of the "Actions for the Number One" blackline. Cut the actions apart and place them in a paper bag.

## DAY 2



Actions for the Number One

Have a ruler and a large construction paper circle and ellipse available. You will use the circle throughout the week.

Prepare the two sentence strips pictured at right. You will use them on Day 2 and again on Day 3.

Familiarize yourself with the partner sharing strategy on
page 19 of the lesson plans. You will use this strategy
today and throughout the school year.
The children will listen to Math Melodies CD Track 3, "Circle Song."

## DAY 3

Prepare a large construction paper triangle. You will use it throughout the week.
Distribute a math bag to each child. Each child will also need a circle and a triangle attribute block. When the lesson is finished, the children will place the attribute blocks in their math bags.

Familiarize yourself with the "Rocket Cheer." The children place both hands together near their waists with palms together and fingers pointed up. They wiggle their hands upward like a rocket taking off. When the children's hands reach over their heads, they separate them in a big circular movement, like bursting fireworks, while saying, "Ah!"

## DAY 4

Prepare a large construction paper rectangle and square. You will use them with the circle, ellipse, and triangle prepared earlier in the week.

You will also need a square and a rectangle attribute block for each child. The children will add them to their math bags when the lesson is finished.

## DAY 5

Prepare sets of six construction paper rectangles in varying lengths (all the same color). The six lengths should consist of three pairs of the same length to be used in a matching activity. Laminate them for future use. You will need one rectangle for each child.

You will need a large construction paper square, rectangle, rhombus, and pentagon for demonstration purposes.

## UNIT 1

## WEEK <br> Daily Routines

Math Concepts

Formative /
Summative
Assessment

Workbooks \& Media

| $\text { DAY } 3$ | $\text { DAY } 4$ | DAY 5 |
| :---: | :---: | :---: |
| Calendar <br> Weather <br> Number Line <br> Place Value <br> Hundreds Chart | Calendar <br> Weather <br> Number Line <br> Place Value <br> Hundreds Chart | Calendar <br> Weather <br> Number Line <br> Place Value <br> Hundreds Chart |
| Preview the number three Introduce The triangle and its properties | Preview the number four Introduce <br> The rectangle, the square, and their properties $\square$ | Preview the number five <br> Review rectangle/ square <br> Introduce <br> The pentagon, the rhombus, and their properties <br> Measuring length using rectangles <br> Measuring (Matching Game) |
| Review circle and triangle Partners | Review shapes | Discuss measuring activity |
| Introduce <br> The Rocket Cheer |  |  |

## Daily O Routines

## 31 Calendar

Ask: Why do people use calendars? Volunteers respond. Yes, people use calendars for many reasons. Why might we use a calendar in our classroom? Volunteers respond.

## Materials

Computer navigated to Starfall.com: CalendarClassroom CalendarName of month and days, numbers 1-31

## Counting \& Cardinality

B. 4 - Understand the relationship between numbers and quantities.
B. $4 a$ - Say number names in order, pairing each object with one number.
B. 4 - - The last number counted tells the total number of objects.
B.4C - Each successive number refers to one more.

Say: Let's build our own calendar. Indicate the blank classroom calendar. Who knows what's missing?

On a classroom computer, access Starfall.com: Calendar. View the month (first screen) and the days of the week (second screen). Lead the children to notice these are missing from the classroom calendar, and then add them.

Ask: What else is missing? Right, the numbers!
Distribute numbers 1-31 (depending on the current month) to the children. The children place their numbers on the classroom calendar. Say: (current month) has (number of days) days. Today is (month, date).

Continue: Let's turn over all of the number cards for the days in (current month) ahead. Now our calendar tells us today's date: (day, month, date).


## Weather

- Indicate the Weather Picture Cards and help the

MaterialsWeather Picture Cards (displayed) children identify them.

- Introduce tally marks as a way to keep track of the number of objects.
- Demonstrate how to make a tally mark under "Today's Weather."

Review the numbers on the calendar. Call the children by name and direct them to form a "human number line" by standing shoulder-to-shoulder. Touch each child's head as you count them. Say: We just made a number line!

Indicate the Classroom Number Line on the wall. Say: This is our number line. What do you notice? (Some numbers are covered.) Yesterday we were not in school. We had been in school negative one days.

Indicate the negative numbers. Say: Look at these numbers. These are negative numbers. That means these numbers come before zero. Yesterday was (day
 of the week). We were not in school. We had been in school negative one days. The day before that was (name the day). We were in school negative two days. The day before that we were in school negative three days.

Say: Let's look at zero again. What number comes after zero? Remove the sticky note to reveal the number one. Continue: Zero is a placeholder between the negative numbers and the positive numbers. Each day we are in school we will reveal a new positive number.

## Materials

## Introduce Daily Routines and Preview One

## (1) Introduce Place Value Routine

Indicate the container of craft sticks and the ones, tens, and hundreds containers. Explain: Each day we are in school we will place a stick in one of these containers.

Indicate the ones container. Say: This container is for individual sticks, but it can only hold nine sticks. On our tenth day of school we will bundle the ten sticks and place them in the next container.

Indicate the Classroom Number Line and point to zero. Say: Yesterday we had been in school negative one days. Look at this number. Indicate negative one. This is negative one. Say negative one. Children repeat, negative one.

## Counting \& Cardinality

B. 4 - Understand the relationship between numbers and quantities.
B.4a - Say number names in order, pairing each object with one number.
B. 46 - The last number counted tells the total number of objects.
B.4C - Each successive number refers to one more.

Continue indicating negative numbers. Say: This was the day before yesterday (negative two). This was the day before that (negative three).

Ask: Who can find the number that comes after zero? (one) This number tells us how many days we have been in school so far, so we will put one stick in the container to match the number of days we have been in school. A volunteer places the stick in the ones container.

## 2 Introduce the Hundreds Day Chart

Say: Here is another way to count how many days we've been in school. It's our Hundreds Day Chart. We will turn one number each day. A volunteer turns the first number.

## 3 Preview the Number One

Write the numeral 1 on the whiteboard. Ask: Who can find all the number ones in our classroom? (calendar, number line, hundreds chart, clock, etc.)


Actions for the Number One

Accept and affirm correct responses.
Say: I can find another way to show one. There is one tally mark under today's Weather Card. Where else do you see a way to show one?
(There is one stick in the ones container.)
Backpack Bear whispers that there is only ONE of him!

## E

## Formative Assessment

## Action Strips for the Number One

Indicate the paper bag containing the action strips for the number one. Choose a volunteer to draw a strip from the bag. Read the action (jump, clap, nod, turn around, wiggle, blink, smile, wink, hop, wave, yawn) and together the class performs it one time. Choose additional volunteers and repeat as time allows.

See the Read Me First to learn about Backpack Bear and how to incorporate him as a member of your class.

## CALENDAR <br> Calendar

Say: This is the calendar we built yesterday. Indicate the month. The name of the month is (current month). Say, (current month).

Say: Let's say the names of the days of the week together.

MaterialsComputer navigated to Starfall.com: CalendarClassroom CalendarName of month and days, numbers 1-31 Indicate and name the days. If yesterday was (yesterday's name), what is the name of the day that comes after (yesterday's name)?

Say: Let's count how many days there have been in (current month) so far. Point to and count from one to the present date. Explain: Each day the calendar helper will reveal one more day. The calendar helper turns the next number to reveal the next day. Say: Today is (day, month, date).

## Weather

HMIII
Say: Here are pictures of different kinds of weather. Yesterday was (yesterday's weather). I wonder what kind of weather we will have today.

The meteorologist goes to the window to look outside, and predicts the weather. He or she places a tally mark under the predicted weather.

Ask: Why do you think this will be the weather today?

\section*{+H | 1 | -1 | 0 |
| ---: | ---: | ---: | <br> Number Line}

Say: The number helper will have many jobs. First, look at the number line. Let's count from negative MaterialsWeather Picture Cards (displayed)

Materials
$\square$ Number line
(mounted)Pointer five to the number we revealed yesterday. Indicate and count from negative five to one.

Say: Today we will add one more number. Raise your hand if you know what one plus one more is. The number helper chooses a volunteer to identify two. Right, one plus one more is two. Remove the sticky note to reveal the numeral 2. We have been in school two days.

## 100 Place Value

Indicate the ones container. Ask: How many sticks are in the ones container? (one) Right, one. Today we get

```
Materials
Prepared Ones container
Craft sticks
```to add one more stick. This shows we have been in school for two days.

The number helper adds a stick. Say: Let's count how many sticks there are so far. Count: one, two.

Counting \& Cardinality
A. 2 - Count forward from a given number.
B. 4 - Understand the relationship between numbers and quantities.
B.4a - Say number names in order, pairing each object with one number.
B. 46 - The last number counted tells the total number of objects.
B.4C - Each successive number refers to one more.

Say: There is one more way to count how many days we have been in school. Let's look at the hundreds chart. This chart shows that we have been in school one day.
Today we will turn the next number. The number helper turns the number.
Ask: The hundreds chart shows that we have been in school how many days?

\section*{Materials}

\section*{Review One, Preview Two}

\section*{1. Review 1}

Write the numeral 1 on the whiteboard. Ask: Who can find ones in our classroom? (calendar, number line, hundreds chart)
\(\square\) Prepared Sentence Strips:
This is a
I know this because
\(\square\) Backpack Bear's Math Big Book, page 4
\(\square\) Math Melodies CD, Track 3Prepared circle and ellipseBackpack BearRuler

Say: I can find another way to show one. Let's look at the Alphabet Chart. What is the first letter of the alphabet? (A volunteer identifies Aa.) Right, \(A a\) is the first letter of the alphabet. Can you find anything else in our classroom that shows one?

\section*{2 Introduce Circle}

Say: Backpack Bear would like us to learn about two shapes that each have only one line.

Indicate the prepared ellipse. Say: This is an ellipse. Ellipse is the mathematical name for an oval. Say, ellipse. An ellipse is a flat shape that has one curved line around two points.

Display Backpack Bear's Math Big Book, page 4.


Indicate the circle. Say: This is a circle. A circle is a flat shape.
It is made of points. All the points are the same distance from the center point. A circle is a special kind of ellipse. Both a circle and an ellipse have one curved line. How are they different? Discuss.

Use a ruler to show that the center point to the curved line is the same all around the circumference of the circle.

\section*{3 Properties of a Circle}

Indicate the sentence strip: This is a \(\qquad\) .
Read: This is a (blank). I will put the circle This is a \(-\cdots-\cdots-\cdots-\cdots\) shape in my sentence. Let's read the sentence together: This is a circle.

Indicate the sentence strip:
I know this because \(\qquad\) _.
Read: I know this because (blank). Let's read this sentence together:
I know this because.
Ask: How do we know this is a circle? Volunteers respond. Right, we know it is a circle because it is a flat shape made of points that are all the same distance from the center point. Let's finish our sentence.

Remove the circle shape from the sentence.
Play Math Melodies Track 3. The children listen to the "Circle Song."

\section*{(4) Preview 2}

Write the numeral 2 on the whiteboard. Ask: Who can find twos in the classroom? (calendar, number line, hundreds chart)

Say: I can find another way to show two. Let's look at the Alphabet Chart. What is the second letter of the alphabet? Volunteers respond. Right, \(A a\) is the first letter and \(B b\) is the second letter.

Backpack Bear whispers to you, "I have 2 arms and 2 legs." Tell this to the children and ask: What else do we all have 2 of? (eyes, ears, hands, feet)

\section*{Formative Assessment}

\section*{Introduce "Partner Sharing"}

Choose two volunteers to come forward. Say: Let's count how many children there are here. Do this. These two children will be partners. Say, partners. Children repeat, partners. We will do a lot of work this year as partners.
These partners will work together to answer a question.
Steps in partnering:
- The partners (volunteers) sit criss-cross, knee-to-knee, facing each other.
- Say: First the partners greet each other. Let's try this. Greet each other. (Hi, Sam; Hi, Suzy.) Next the partners discuss the question or subject. Here's your subject: Discuss what you have two of on your bodies. Ready? Discuss. Partners do this.
- Introduce a signal to end the discussion. Say: Clap once if you can hear me. The children do this. Clap twice if you can hear me. The children do this. Explain: This will be the signal to end the discussion.
- Ask: Who can share what you have two of on your body? Partners share with the class. (eyes, ears, arms, hands, legs, feet, etc.)
- Continue: The next step is to compliment your partner. Partners, compliment each other. Say, good job (name). Partners do this.

- Say: The last thing you do is say goodbye to your partner.

Say: This is the calendar we built the first day of school. Indicate the month. The name of the month is (current month). Say, (current month).

Say: Let's say the names of the days of the week together. Indicate and name the days. If yesterday was (yesterday's name), what is the name of the day that comes after (yesterday's name)? The calendar helper chooses a volunteer to name the day.

Say: Let's count how many days there have been in (current month) so far. Point to and count from one to the present date. Explain: Each day the calendar helper will reveal one more day.

The calendar helper turns the next number to reveal the next day. Say: Today is (day, month, date). counted tells the total number of objects.
B.4C - Each successive number refers to one more.
B. 4 - The last number

\section*{Counting \& Cardinality}
A. 2 - Count forward from a given number.
B. 4 - Understand the relationship between numbers and quantities.
B.4a - Say number names in order, pairing each object with one number.

\section*{Weather}

Say: Here are pictures of different kinds of weather.

\section*{Materials}
\(\square\) Weather Picture Cards (displayed) Yesterday was (yesterday's weather). I wonder what kind of weather we will have today.

The meteorologist goes to the window to look outside, and predicts the weather. He or she places a tally mark under the predicted weather.

Ask: Why do you think this will be the weather today?


Say. Today we will add one more number. Raise your hand if you know what two plus one more is. The number helper chooses a volunteer. numeral 3 . We have been in school three days.Ones container
Indicate the ones container. Ask: How many sticks are inCraft sticks the ones container? (two) Right, two. Today we get to add one more stick. This shows we have been in school for three days.

The number helper adds a stick. Say: Let's count how many sticks we have so far. Count: one, two, three.

\section*{ \\ Hundreds Chart}

\section*{Materials}
\(\square\) Hundreds Chart
Say: There is one more way to count how many days we have been in school. Who remembers what it is?
Right, let's look at the hundreds chart. This chart shows that we have been in school two days. Today we will turn the next number. The number helper turns the number.

Ask: The hundreds chart shows that we have been in school how many days?

\section*{Materials}

\section*{Preview Three}

Preview 3
Write the numeral 3 on the whiteboard. Say: Let's see if we can find all the threes in the classroom. (calendar, number line, hundreds chart, clock)

\section*{(2) Introduce Triangle}

Indicate Backpack Bear's Math Big Book, page 5.
Ask: What shape would Backpack Bear like us to learn about today? Right, this flat shape is called a triangle.

The children describe what they see on the triangle page. Point out that it doesn't matter how big or in what direction the triangle is as long as it has 3 lines and 3 angles.

Say: This shape has three straight lines. Let's count them. Do this. It also has three corners. Indicate and count the corners.

Continue: Corners are called angles in math. Let's call these corners angles. Say, angles. Children repeat, angles.


\section*{Counting \& Cardinality}
B. 4 - Understand the relationship between numbers and quantities.
B. 4 - - Say number names in order, pairing each object with one number.
B. 46 - The last number counted tells the total number of objects.
B.4C - Each successive number refers to one more.

\section*{Geometry}
A. 2 - Correctly name shapes.

\section*{(3) Properties of a Triangle}

Indicate the sentence strip: This is a \(\qquad\) . Add the triangle. Say: Let's read the new sentence: This is a triangle. Children repeat, This is a triangle.

Indicate and read the sentence strip: I know this because \(\qquad\) .
Ask: How do we know this is a triangle? (It has three straight lines and three angles.) Let's finish this sentence: I know this because it has three straight lines and three angles.

Introduce Math Melodies CD Track 33,"Triangle Waltz."

\section*{\(\xrightarrow{\text { IIII }}\)}

Formative Assessment

\section*{Review Circle and Triangle}

Distribute a circle and a triangle attribute block to each child. The children place them in their math bags. Say: Each of you has a math bag with different shapes in it. Are the shapes all the same or are they different? Volunteers respond.
- Say: I will describe a shape. Listen carefully, then find the shape, take it out of your math bag, and hold it up.
- Say: I have one curved line. What shape am I? What is the name of this shape? Volunteers respond. Right, circle. How did you know it was a circle? (It has one curved line.) The children place the circle back in their math bags.
- Say: I have three straight lines and three angles. What shape am I? What is the name of this shape? Volunteers respond. Right, a triangle. How did you know it is a triangle? (It has three straight lines and three angles.) The children place the triangle back in their math bags.
- Say: Now let's partner. Everyone stand. Hold your math bag in one hand and raise your other hand up high in the air. Now, find someone who has his or her hand up, walk toward that person and connect hands. The children do this. Now sit criss-cross, knee-to-knee, facing your partner. This is called "Stand Up, Hand Up, Partner Up." Great job! Let's do a Rocket Cheer!

Touch one child in each partner group and tell them they are partner number one. Continue: Partner one, please raise your hand. Take a shape out of your math bag. Your partner will say: I know this is a (blank) because (blank). Then partner number two will have a turn to do the same thing. Ready? Begin.

After partners are finished, remind the children to compliment their partners and say goodbye. Gather the children back into a group.

\section*{The Rocket Cheer}

The children place both hands together near their waists with palms together and fingers pointed up. They wiggle their hands upward like a rocket taking off. When the children's hands reach over their heads, they separate them in a big circular movement, like bursting fireworks, while saying, "Ah!"
Ask: Who knows the name of the month? Where on the calendar does it tell us the name? The calendar helper chooses a volunteer to indicate the month.

Say: Let's say the names of the days of the week together. Indicate and name the days. If yesterday was (yesterday's name), what is the name of the day that comes after (yesterday's name)? The calendar helper chooses a volunteer to name the day.

Say: Let's count how many days there have been in (current month) so far. Point to and count from one to the present date. Ask: What is (current day number) plus one more? The calendar helper chooses a volunteer to answer.

Say: Today is (day, month, date). Children repeat.

\section*{Weather}

HMIII
Say: Here are pictures of different kinds of weather. Yesterday was (yesterday's weather). I wonder what kind of weather we will have today.

The meteorologist goes to the window to look outside, and predicts the weather. He or she places a tally mark under the predicted weather.

Ask: Why do you think this will be the weather today?

\section*{}

Say: Look at the number line. Let's count from Materials
\(\square\) Number linePointer

Materials
Weather Picture Cards (displayed) negative five to the number we revealed yesterday. Indicate and count from negative five to three.

Say: Today we will add one more number. Raise your hand if you know what three plus one more is. The number helper chooses a volunteer. Right, three plus one more is four. Remove the sticky note to reveal the numeral 4. We have been in school four days.

\section*{100 Place Value}

Indicate the ones container. Ask: How many sticks are in
Materials
Ones container the ones container? (three) Right, three. Today we get to add one more stick. This shows we have been in school for four days.

The number helper adds a stick. Say: Let's count how many sticks we have so far. Count: one, two, three, four.

Counting \& Cardinality
A. 2 - Count forward from a given number.
B. 4 - Understand the relationship between numbers and quantities.
B.4a - Say number names in order, pairing each object with one number.
B. 46 - The last number counted tells the total number of objects.
B.4C - Each successive number refers to one more.

\section*{Hundreds Chart}

Say: There is one more way to count how many days we have been in school. Who remembers what it is? Right, let's look at the hundreds chart. This chart shows how many days we have been in school. Today we will turn the next number. The number helper turns the number.

Ask: The hundreds chart shows that we have been in school how many days?

\section*{Materials}

\section*{Preview Four}Prepared construction paper: circle, ellipse, triangle, rectangle, and square

\section*{1 Preview 4}A rectangle and a square attribute block for each child

Write the numeral 4 on the whiteboard. Say:Backpack Bear's Math Big Book, pages 6 and 7 Let's try to find all the fours in the classroom. (calendar, number line, hundreds chart, clock)
A. 3 - Identify shapes as two- or threedimensional.

Review Circle and Triangle
Indicate a circle. Say: This is a circle. What do you remember about this shape? Discuss. A circle is a flat shape made of points that are all the same distance from the center point. Make a giant circle in the air with your finger.
The children do this.
Indicate a triangle. Say: This is a triangle. What do you remember about this shape? Discuss. This shape has three straight lines. Let's count them. It also has three corners, or angles. Make a giant triangle in the air with your finger. The children do this.

\section*{3 Introduce Rectangle}

Display Backpack Bear's Math Big Book, page 6. Say: This is a rectangle. Say, rectangle. It has four sides. Indicate and count the sides.

Continue: It also has four right angles. Indicate and count the angles.

Ask: What do you notice about the sides of this rectangle? Right, two sides are short and two sides are long.
Volunteers take turns pointing to the short and long lines.


Say: Make a giant rectangle in the air with your finger.
The children do this.

Turn to Backpack Bear's Math Big Book, page 7. Say: This is a square.
Say, square. It is a special kind of rectangle. What do you notice about a rectangle and a square that is the same?
(They each have four lines and four angles.)
Indicate pages 4 and 5. Say: Look at this rectangle and square.
What is different about them? Volunteers respond.

\section*{(5) Properties of a Square}

Say: A square has four equal sides and four right angles. All the sides are the same size. It doesn't matter how you turn the square. It always looks the same.

Introduce Math Melodies CD Track 21,"Rectangle Boogie."


\section*{Formative Assessment}

\section*{Review Shapes}

Distribute a square and a rectangle attribute block to each child. The children place them in their math bags. Say: I will describe a shape. Listen carefully and then take the shape out of your bag and hold it up.
- Say: I am a flat shape made of points that are all the same distance from the center point. What shape am I? (circle) Right, a circle. The children place the circles back in their math bags.
- Say: I have four straight lines and four right angles. Two of my lines are longer and two are shorter. What shape am I? (rectangle) Right, a rectangle. The children place the rectangles back in their math bags.
- Say: I am a special kind of rectangle. I have four straight lines and four right angles. My lines and angles are exactly the same. What shape am I? (square) Right, a square. The children place the squares back in their math bags.
- Say: I have three straight lines and three angles. What shape am I? (triangle) Right, a triangle. The children place the triangles back in their math bags.
- Say: I am a flat shape that is not in your math bag! I am made of one curved line around two points but my points are not the same distance from the center. What shape am I? (ellipse)

> It is not important that children understand the term
> "right angle" at this time. The purpose of this lesson is to prepare children to recognize shapes with angles that are not right angles and familiarize them with proper geometric terms.

\section*{31 Calendar}

Ask: Who knows the name of the month?
Where on the calendar does it tell us the name? The calendar helper chooses a volunteer to indicate the month.

Say: Let's say the names of the days of the week together. Indicate and name the days. If yesterday was (yesterday's name), what is the name of the day that comes after (yesterday's name)? The calendar helper chooses a volunteer to name the day.

Say: Let's count how many days there have been in (current month) so far. Point to and count from one to the present date.

Ask: What is (current day number) plus one more? The calendar helper chooses a volunteer to answer.

Say: Today is (day, month, date). Children repeat. number refers to one more.
counted tells the total number of objects.
B.4C - Each successive

\section*{Counting \& Cardinality}
A. 2 - Count forward from a given number.
B. 4 - Understand the relationship between numbers and quantities.
B. \(4 a\) - Say number names in order, pairing each object with one number.
B. 46 - The last number

\section*{Weather}

Say: Here are pictures of different kinds of weather.

Materials
\(\square\) Weather Picture Cards (displayed)

Yesterday was (yesterday's weather). I wonder what kind of weather we will have today.

The meteorologist goes to the window to look outside, and predicts the weather. He or she places a tally mark under the predicted weather.

Ask: Why do you think this will be the weather today?
Say: Let's look at the weather graph. A graph is a picture that gives information. Which Weather Picture Card has the most tally marks? What does that mean?

The children should understand that the Weather Picture Card with the most tally marks indicates the weather that has occurred most frequently.

\section*{\({ }_{2 \rightarrow 10+2}^{2}+1+2\) Number Line}

Say: Look at the number line. Let's count from

Materials
\(\square\) Number line
Pointer negative five to the number we revealed yesterday. Indicate and count from negative five to four.

Say: Today we will add one more number. Raise your hand if you know what four plus one more is. The number helper chooses a volunteer. Right, four plus one more is five.

Remove the sticky note to reveal the numeral 5. Say: We have been in school five days.
Indicate the ones container. Ask: How many sticks areCraft sticks in the ones container? (four) Right, four. Today we get to add one more stick. This shows we have been in school for five days. The number helper adds a stick. Let's count how many sticks we have so far. Count: one, two, three, four, five.

\section*{弗 \\ Hundreds Chart}

\section*{Materials}
\(\square\) Hundreds Chart
Say: Remember, there is one more way to count how many days we have been in school. Let's look at the hundreds chart. This chart also shows how many days we have been in school. Today we will turn the next number.

The number helper turns the number. Ask: The hundreds chart shows that we have been in school how many days?

\section*{Materials}

\section*{Preview Five}

\section*{(1) Preview Five, Introduce Pentagon and Rhombus}
\(\square\) Prepared construction paper pentagon, rectangle, square, and rhombus
\(\square\) Prepared sets of rectangular lengths

Write the numeral 5 on the whiteboard. Say: Let's see if we can find fives in the classroom.
(calendar, number line, hundreds chart, clock)
Indicate the pentagon shape. Say:This is a pentagon. Say, pentagon. (The children repeat, pentagon.) Let's count the sides on the pentagon.

Display the shape and the children count the sides. Say: A pentagon has five sides.

\section*{2 Review Rectangle and Square}

Indicate the rectangle. Say: This is a rectangle. How many sides does a rectangle have? Let's count. (Do this.) What do you notice about the sides?

Measurement \& Data
A. 2 - Compare two objects with a common measurable attribute.
 Are they all the same size? How many corners or angles does a rectangle have? Let's count.

Indicate the square. Say: This is a square. It is a special kind of rectangle. It has four sides and four right angles that are all the same. What do you notice about the sides of the square? Right, they are all the same size, or equal.


\section*{3 Introduce Rhombus}

Indicate the rhombus. Say: This is a rhombus. Say, rhombus. Look at the other shapes. Which shape does the rhombus look most like? Right, the square. A rhombus has four equal sides, but look at the corners! Point out that two of the angles are wider.

Display the square and the rhombus next to each other. Indicate the square and say: Square. Indicate the rhombus and say: Rhombus.

Say: I will touch one of these shapes. When I touch the shape you say its name. Ready? Touch each shape randomly several times until the children are familiar with their names.

\section*{(4) Introduce Measuring with Rectangles}

Indicate two rectangular lengths that are the same length. Say: Here are two rectangles. They are the same length. Demonstrate how to compare the lengths by lining up the ends.

Indicate two rectangular lengths that are different lengths. Say: Here are two rectangles. One is longer and one is shorter. Let's line them up end to end to check. Do this.

\section*{IIIIII Formative Assessment}

\section*{Match Lengths}

Say: Today we will play a matching game. I have a rectangle for each of you.
Distribute the rectangles. Say: Find a partner who has a rectangle that is exactly the same length as yours. When you find a partner who has a rectangle that is the same length, sit down together and hold up your rectangles.
The children do this.
Say: If you don't find a partner who is still standing with a rectangle that matches yours, look at the partners who are sitting. If your rectangle matches theirs, sit with them.

\section*{Compare Rectangles}

Once all of the children are sitting in groups, the children in each group stand together in turn to display their rectangles. The class confirms whether or not the rectangles are the same length.

If time allows, collect the rectangle shapes, mix them up, redistribute them, and repeat the activity.
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