KINDERGARTEN SUPPLEMENT

Set D8  Measurement: Measuring Tools Calendar Pattern

Includes
April Calendar Pattern  D8.1

Skills & Concepts
★ identify the appropriate instruments used to measure time, weight, temperature, and length
★ describe and extend simple repeating patterns
★ read aloud numerals from 0 to 31
★ identify ordinal positions through the 31st
Bridges in Mathematics Kindergarten Supplement

Set D8  Measurement: Measuring Tools Calendar Pattern

The Math Learning Center, PO Box 12929, Salem, Oregon 97309. Tel. 1 800 575–8130.
© 2013 by The Math Learning Center
All rights reserved.
Prepared for publication on Macintosh Desktop Publishing system.
Printed in the United States of America.

P201304

The Math Learning Center grants permission to classroom teachers to reproduce blackline masters in appropriate quantities for their classroom use.

Bridges in Mathematics is a standards-based K–5 curriculum that provides a unique blend of concept development and skills practice in the context of problem solving. It incorporates the Number Corner, a collection of daily skill-building activities for students.

The Math Learning Center is a nonprofit organization serving the education community. Our mission is to inspire and enable individuals to discover and develop their mathematical confidence and ability. We offer innovative and standards-based professional development, curriculum, materials, and resources to support learning and teaching. To find out more, visit us at www.mathlearningcenter.org.
Set D8 ★ April Calendar Pattern

Measuring Tools

Overview
This set of Calendar Grid markers replaces the student-made markers in the month of April, and provides opportunities for kindergartners to identify some of the tools commonly used to measure time, weight, temperature, and length.

Skills & Concepts
★ identify the appropriate instruments used to measure time, weight, temperature, and length
★ describe and extend simple repeating patterns
★ read aloud numerals from 0 to 31
★ identify ordinal positions through the 31st

You’ll need
★ Calendar Grid pocket chart
★ Month and Year Calendar Grid cards
★ April Measuring Tools Calendar Markers (available at http://gotomic.org/calmarkers) Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.
★ Mini-Markers (pages D8.6–D8.11, see Advance Preparation)
★ 4 pieces of 18" × 24" chart paper (see Advance Preparation)
★ glue stick and marking pens
★ helper jar containing a popsicle stick for each child with his/her name on it
★ measuring tools (optional, see Extensions on page D8.4)
★ books about measurement to read aloud (optional, see Extensions on page D8.4)

Advance Preparation Run 1 copy of the Mini-Markers sheets on copy paper. Cut the mini-markers apart, stack them in order from 1–31, and store them near your calendar display in an envelope or small resealable bag. Label the 4 sheets of chart paper as shown below.

<table>
<thead>
<tr>
<th>Time</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>Length</td>
</tr>
</tbody>
</table>
Introducing the Measuring Tools Calendar Grid Pattern

Open your first Number Corner lesson in April by directing students’ attention to the calendar grid. Explain that as in previous months, you will put up a new calendar marker as each day of the month passes. Place the first marker in the correct pocket, and ask children to pair-share observations. What do they notice about this marker? After a few moments, pull popsicle sticks from your helper jar to call on children to share their observations with the class. Guide them to discuss the fact that people use watches to tell time.

Students  It’s a watch!
My dad has one like that.
You can wear it.
It has numbers on it, like 1, 2, 3, 4.

Teacher  Why do people wear watches?

Student  To tell time.
So they can know what time it is.

Post the chart you have prepared with the word “Time” written at the top. Read the word with the class, and explain that the calendar markers this month will show pictures of measuring tools. Some of the tools, like the watch shown on today’s marker, are used to measure time.

Show students the collection of mini-markers you have prepared. Glue the first one to the Time chart, and work with input from the children to label it. Then ask students to look around the room. Do they see any other tools in the classroom that can be used to measure time.

Students  The clock over there!
My brother has a watch.
What about our play clock in the corner?
Teacher has a watch on so she can tell what time it is.

Continuing through April with the Calendar Grid

Each day throughout the month, display the new marker. Have children describe the tool shown on the marker, identify it by name, and discuss how it is used. Reinforce the words and concepts of time, weight, temperature, and length by gluing a mini-marker to the appropriate chart each day and labeling the tool shown on the marker.
Here are some questions and prompts to use through the month:

- Let’s say the name of each tool as our helper points to the markers.
- Let’s tell what each tool is used to measure as our helper points to the markers.
- Which kind of measuring tool do you think will come next in our pattern? Why?
- Which tool do you see on the 4th marker? (The 10th marker? The 16th marker?)
- Which markers so far show tools that are used to measure length (time, weight, temperature)? What marker will be the next one to show a tool that measures length (time, weight, temperature)? How do you know?
- Can you find tools around our room we could use to measure length (time, weight, temperature)?

Toward the end of the month, ask students to share observations about the collections of mini-markers you have glued to each of the charts. You might have them examine and discuss one of the charts every 2 or 3 days during the last two weeks of the month.

**Teacher**  Let’s look at all the mini-markers we’ve glued to the time chart so far. What do you notice? Talk with the person next to you for a minute, and then I’ll pull some sticks out of our helper jar to choose children to share their ideas with the class.

**Students**  There are watches and clocks.  
What’s that book thing?  
That’s a planner book. You can write stuff for each day.  
Everything on there can help you measure time.  
Some of the things measure minutes and hours, but the calendars have days on them.  
They all have numbers.
Extensions

- Bring in and display examples of tools that can be used to measure time, weight, temperature, and length (e.g., a digital clock, a small analog clock, a medical or scientific thermometer, a round outdoor thermometer, a digital thermometer, a kitchen scale, a bathroom scale, a cloth measuring tape, a carpenter's tape measure, and so on). Ask families to send in items to add to the collection.
- Set up a measuring station where children can use some of the tools to measure length or weight.
- Place an outdoor thermometer outside your classroom window, and encourage interested students to read the temperature each day.
- Read books about measuring during the month. Some possibilities include *Length* and *Weight*, both by Henry Arthur Pluckrose, *How Long is It* by Donna Loughran, *Millions to Measure* by David Schwartz, and *How Big is a Foot* by Rolf Myller.

<table>
<thead>
<tr>
<th>MEASURING TOOLS FEATURED ON THE CALENDAR MARKERS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Time</strong></td>
</tr>
<tr>
<td>Marker 1</td>
</tr>
<tr>
<td>Marker 5</td>
</tr>
<tr>
<td>Marker 9</td>
</tr>
<tr>
<td>Marker 13</td>
</tr>
<tr>
<td>Marker 17</td>
</tr>
<tr>
<td>Marker 21</td>
</tr>
<tr>
<td>Marker 25</td>
</tr>
<tr>
<td>Marker 29</td>
</tr>
</tbody>
</table>
NOTE Below is a representation of the April calendar grid. The full-size calendar markers are available at http://gotomic.org/calmarkers.
<table>
<thead>
<tr>
<th>Mini-Markers Page 1 of 6</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image of a clock showing 12:45" /></td>
</tr>
<tr>
<td><img src="image3.png" alt="Image of a penguin" /></td>
</tr>
<tr>
<td><img src="image5.png" alt="Image of a thermometer" /></td>
</tr>
<tr>
<td><img src="image7.png" alt="Image of a clock" /></td>
</tr>
</tbody>
</table>
Mini-Markers Page 2 of 6

1. A bird and its nest on a tree limb.
2. A measuring tape.
3. A calendar with a card for each month.
4. A child standing on a scale that reads 51 lbs.
5. A thermometer showing 97°F.
6. A measuring tape that reads 25 ft. MEASURING TAPE.
Mini-Markers  Page 4 of 6

19

20

21

22

23

24
Mini-Markers Page 5 of 6

25

26

27

28

29

30
Mini-Markers Page 6 of 6

[Image of a digital thermometer showing 63°F and butterflies]
April Measuring Tools Calendar Markers  Sheet 1 of 16
Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.

April Measuring Tools Calendar Markers  Sheet 2 of 16
Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.

April Measuring Tools Calendar Markers  Sheet 3 of 16

5

6
Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.

April Measuring Tools Calendar Markers  Sheet 4 of 16
Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.

April Measuring Tools Calendar Markers  Sheet 5 of 16

9

10
Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.

April Measuring Tools Calendar Markers  Sheet 6 of 16
Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.

April Measuring Tools Calendar Markers  Sheet 7 of 16

13  14
Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.

April Measuring Tools Calendar Markers  Sheet 8 of 16
Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.

April Measuring Tools Calendar Markers  Sheet 9 of 16

17

18
Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.

April Measuring Tools Calendar Markers  Sheet 10 of 16

19

20
Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.

April Measuring Tools Calendar Markers  Sheet 11 of 16
April Measuring Tools Calendar Markers  Sheet 12 of 16

Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.
Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.

April Measuring Tools Calendar Markers  Sheet 13 of 16

Sheet 13 of 16

25

26
Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.

April Measuring Tools Calendar Markers  Sheet 14 of 16
Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.

April Measuring Tools Calendar Markers  Sheet 15 of 16

29

30
Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.

April Measuring Tools Calendar Markers  Sheet 16 of 16