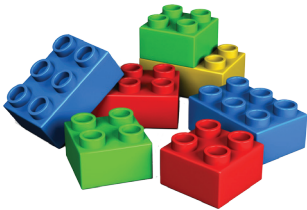


Organize Objects



You've already done some sorting, but this time we are not using geometric shapes. Being able to tell things apart and sort them by using different categories is the first step to organizing your information, so that you can tell other people about the things you have.

Here is the stuff that was in Alex and Pat's toy box:



It's time to put the toys away. Draw a line from the toy to the box. Put the soft stuffed toys in the "soft" box on the left and put the hard toys in the "hard" box on the right.



Re-sort Collections



Alex and Pat are going to put their big toys into storage. Draw the toys they will be putting into storage below.

What other category could Alex and Pat use to sort their toys? Write down some ideas below.

Home Practice:

Do you have a collection of toys, books or buttons? You could also go back and re-use the geometric shapes from before. Whatever collection you have, sort it! You can sort by color, size, texture, shape or sound. When you're done, sort it again by using a different category. For example, if you sorted by color first, sort by size the second time through.



Collect Primary Data



- Surveys are a way to collect information on people and things.
- Surveys can help you find out about different things.
- You are going to do a simple survey on favorite colors in the class.
- Write the question on the line that you will be asking.

- Now get the answers to your question. Write the answers on the chart.

Name	Color



For each name on the list, choose a marker that is the color chosen. If you are starting with white paper, color in the square as you get to the answer, and then make a pencil mark on the survey sheet to note that you've counted that answer. Lay out your markers on the lines below, one color per line.

--	--	--	--	--	--	--

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Pictographs



Here's a tally chart that was made to keep track of the number of boys and girls in the class. The tally marks are grouped with every fifth one crossing the first four to make a bundle of five.

Girls	Boys

- Let's use this information to make a table. Count up the tally marks carefully, and fill in the spaces underneath the results they belong to.



Title: _____	
Girls	Boys



- Now we can use the numbers from the table to draw one person (or just a stick figure) for each girl on the line marked "girls" and one person for each boy on the line marked "boys." Put a title on it to tell what it is!

Title of Graph: _____

Girls: _____

Boys: _____

This is called a pictograph, because it's a graph made with pictures. Have you seen other pictographs before? Where? What were they graphs of?

If you were making a concrete graph with people instead, how would it look?



Read a Pictograph



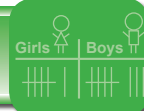
Here's another pictograph. This one is about peoples' favorite fruits.



1. How many people like oranges? _____
2. How many like grapes best? _____
3. What is the fruit liked by the most people? _____
4. What fruit do the least number of people like? _____
5. How many people's answers are recorded in the survey? _____
6. How did you figure that out? _____
7. What other questions can you think of to ask about this data?



Pose and Answer Questions

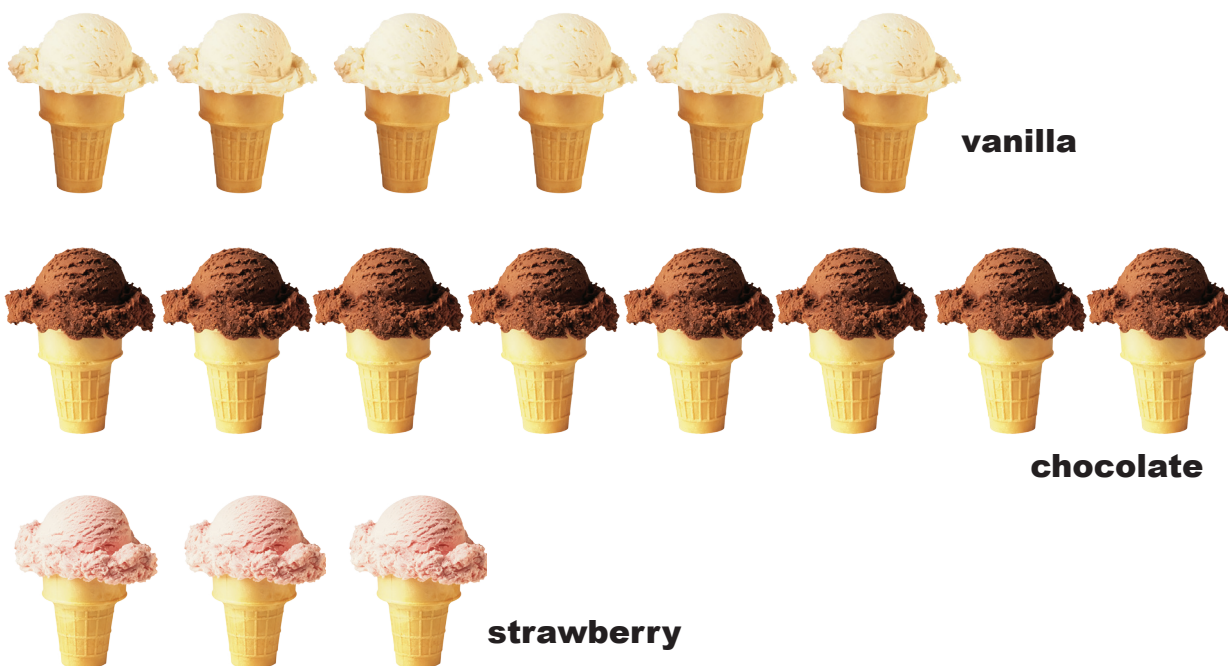


1. People gather information because they want to answer questions. For example, what did you learn from your survey of colors?

Are those the answers you thought you might get? Why or why not?

What about the fruit survey results, does that seem reasonable to you?

2. Here's a pictograph of results from a survey about favorite ice cream flavors:



- What flavor did the fewest people like?
- What flavor had the most fans?
- Did more people prefer chocolate or one of the other flavors?

Now ask some questions of your own about this data and then answer them.



Likelihood of Everyday Events



Let's think about things that might happen in your life and environment, and whether they are likely to happen or not. Words like certain, impossible, and more or less likely all talk about the likelihood of events. For each event below, mark how likely you think it is that it will occur. Use one of these words to answer the question.

likely**not likely****impossible****certain**

a) The sun will come up in the morning. _____

b) You will have school on Saturday. _____

c) You will have a birthday this year. _____

d) It will snow here this summer. _____

e) You will visit with friends this week. _____

f) You will get a new pet. _____

g) You will win the lottery. _____

What things do you think are pretty likely to happen today? Name three things.

How about things that are pretty unlikely to happen today? Name three things.



**Here's your
FREE
lesson!**



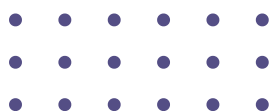
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Mastering 1st Grade Math Curriculum Map

These no prep math worksheets, cover the five math curriculum. Each topic contains individual skills and concepts that match the learning expectations of the curriculum. Mastering Math is an excellent framework for reviewing the math curriculum at home for students who need extra practise.

Organized according to these five general curriculum threads:

1. Number Sense and Numeration (about numbers, counting and basic arithmetic operations)
2. Measurement (of distances, time, temperature, area and volume, using standard SI units)
3. Geometry and Spatial Sense (understanding and using shapes, figures, symmetry and translations)
4. Patterning and Algebra (patterns, problem solving and translating between words and equations)
5. Data Management and Probability (collecting, organizing and displaying information and drawing conclusions from it)

There are two versions of worksheets for each topic. We have included a Canadian version for each topic. There are also some google slides to go along with the Canadian worksheets.

Teacher Notes Include:

- At A Glance – List of Skills
- Table of Contents
- Teacher Assessment Rubric
- Meeting Common Core Standards List – US Version

NUMERATION WORKSHEETS

Numeration Worksheet Topics:

1. Counting and Numbers
2. Represent Numbers
3. Compare Numbers
4. Read Number Words
5. Write Number Words
6. Ordinal Numbers
7. Relate Numbers to 5 and 10
8. Estimate a Set
9. Identify Coins
10. Represent Money
11. Conservation of Number
12. Picture Addition
13. Addition
14. Compose Numbers
15. Adding Coins
16. Decompose Numbers
17. Picture Subtraction
18. Subtraction
19. Subtract Coins
20. Count Forward
21. Count Forward by 2's
22. Count Forward by 5's and 10's
23. Count Backwards
24. Divide Whole Objects
25. Parts of a Whole

Numeration Common Core Standards Met:

- 1.OA.A.1 Use addition and subtraction (sums to 20) to solve word/picture problems.
- 1. OA.B.3 Apply associative and commutative properties of addition.
- 1. OA.B.4 Understand subtraction as an unknown addend problem.
- 1. OA.C.6 Add and subtract fluently within 10 and within 20 using known strategies.
- 1. OA.D.7 Understand the meaning of the equal sign; determine if addition and subtraction equations are true or false.
- 1.OA.D.8 Determine the unknown whole number in an addition or subtraction equation.
- 1.NBT.A.1 Count orally, read or write numbers to 120, starting at any number less than 120.
- 1. MB.A.8 Solve problems using understanding of money values.

MEASUREMENT WORKSHEETS

- **Metric Measurement Google Slides**
- **Metric Measurement Version Included**

Measurement Worksheet Topics:

1. Measure Lengths
2. Size and Number of Units
3. Estimate and Measure Length
4. Construct Measuring Tools
5. Compare Objects
6. Order Objects
7. Yards (Meters)
8. Measuring with Yards (Meters)
9. Estimate and Measure Area
10. Compare Areas
11. Measure Capacity
12. Measure Mass
13. Compare Capacity
14. Compare Mass
15. Measuring Time
16. Benchmark Times
17. Tell Time
18. Write Time
19. Calendars
20. Calendar Dates
21. Temperatures and Seasons
22. Relative Temperatures

Measurement Common Core Standards Met:

- 1. OA.C.6 Add and subtract fluently within 10 and within 20 using known strategies.
- 1. MD.A.1 Order three objects by length.
- 1. MD. A.2. Express the length of an object as a whole number of length units.
- 1. MD. B.3 Tell and write time in hours and half-hours, using analog and digital clocks.
- 1. G.A.3 Divide circles and rectangles into two and four equal parts; naming the parts as halves, fourths and quarters.
- 1. MD.C.4 Organize, interpret and represent data with up to three categories.

GEOMETRY WORKSHEETS

Geometry Worksheet Topics:

1. Identify Shapes
2. Sort Shapes
3. Compose Designs
4. Identify Shapes in Designs
5. Cover Outline Puzzles
6. More Puzzles
7. Faces of Figures
8. Naming 3D Figures
9. Sort 3D Figures
10. Build 3D Structures
11. Everyday Objects in 3D
12. Relative Locations
13. Simple Concrete Map
14. Symmetry
15. Symmetry in the Environment
16. Create Symmetrical Designs
17. Create Symmetrical Pictures

Geometry Common Core Standards Met

- 1. MD.C.4 Organize, interpret and represent data with up to three categories.
- 1. G.A.1 Draw, build and name shapes to show their defining attributes.
- 1. G.A.2 Compose two-dimensional and three-dimensional shapes.

PATTERNING WORKSHEETS

- **Patterning Google Slides**

Patterning Worksheet Topics:

1. Repeating Geometric Patterns
2. Extending Repeated Patterns
3. Repeating Numeric Patterns
4. Repeating Patterns in a Hundreds Chart
5. Identify Pattern Rules
6. Create Repeating Patterns
7. Represent Repeating Patterns
8. Represent Patterns in Other Media
9. Sets that are More, Less and Equal
10. Equality
11. Create Equality by Adding
12. Create Equality by Subtracting

Patterning Common Core Standards Met:

- 1.OA.C.5 Relate counting to addition and subtraction.
- 1. OA.D.7 Understand the meaning of the equal sign; determine if addition and subtraction equations are true or false.
- 1. MD.C.4 Organize, interpret and represent data with up to three categories.
- 1. G.A.2 Compose two-dimensional and three-dimensional shapes.

DATA MANAGEMENT WORKSHEETS

- **Data Management Google Slides**

Data Management Worksheet Topics:

1. Organize Objects
2. Re-Sort Collections
3. Collect Primary Data
4. Concrete Graphs
5. Pictographs
6. Read a Pictograph
7. Pose and Answer Questions
8. Likelihood of Everyday Events

Data Management Common Core Standards Met

- 1.OA.D.8 Determine the unknown whole number in an addition or subtraction equation.
- 1. MD.C.4 Organize, interpret and represent data with up to three categories.