

In an effort to keep parents and guardians informed of the expectations and content being covered in math class this year, this informational handout will be provided for each chapter. Its intent is to assist in guiding you in ways to support your child in deepening their mathematical understanding.



In each chapter we will spend time reviewing material taught in prior grades as it relates to the standards being taught in fourth grade. Our goal is to keep a balance of skill based learning along with enhancing our student's ability to problem solve and think conceptually.

Scan the QR code to check out teaching strategies for this chapter.

| Review Material from Prior Grades |
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| <ol style="list-style-type: none"> 1) Products and quotients within 100. (3.OA.7) 2) Measure/estimate liquid volume and masses using standard units of grams, kilograms, and liters. Add, subtract, multiply, and divide one-step word problems involving masses/volumes in the same unit. (3.MD.2) 3) Measure lengths using a ruler to the nearest half and fourth of an inch. Show measurement data on a line plot. (3.MD.4) |
| New Material for 4th Grade |
| <ol style="list-style-type: none"> 1) I know relative sizes of measurement units within one system of units including km, m, cm, kg, g, lb., oz., L, mL; hr., min, sec. I can within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. I can record measurement equivalents in a two-column table. (4.MD.1) 2) I can use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, in problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale. (4.MD.2) 3) I can use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, in problems involving simple fractions or decimals. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale. (4.MD.2) 4) I can make a line plot to display a data set of measurements in fractions of a unit $\frac{1}{2}$, $\frac{1}{4}$, and $\frac{1}{8}$. (4.MD.4) 5) I can solve problems involving addition and subtraction of fractions by using information presented in line plots. (4.MD.4) |
| End of Chapter Expectations |
| <ol style="list-style-type: none"> 1) Chapter Assessment |

*Please note the list above highlights the main skills to be assessed. Teachers may include additional content to meet the needs of their students.

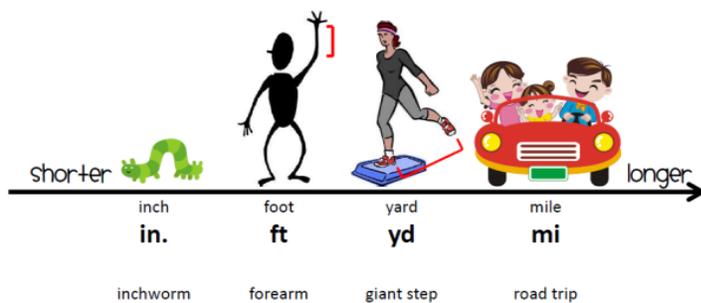
Strategies for Customary Measurement

☺ Family Practice ☺

Check out some of these free math websites to practice customary measurement.

- 1) Funny Numbers- Greg Tang
<http://gregtangmath.com/play?game=funnynumbers>
- 2) Conversion Soup
<http://mrnussbaum.com/soup-play/>
- 3) Study Jams- Line Plots
<http://studyjams.scholastic.com/studyjams/jams/math/data-analysis/line-plots.htm>

Customary Length



Customary Units of Length

1 foot (ft) = 12 inches (in)

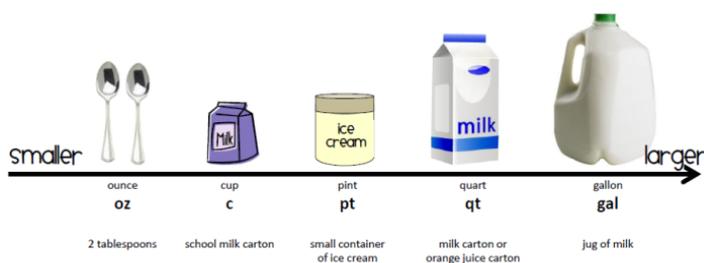
1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in)

1 mile (mi) = 1,760 yards (yd)

1 mile (mi) = 5,280 feet (ft)

Customary Capacity



Customary Units of Capacity

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 quart (qt) = 4 cups (c)

1 gallon (gal) = 4 quarts (qt)

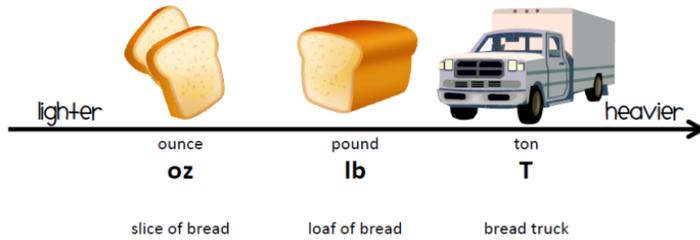
1 gallon (gal) = 8 pints (pt)

1 gallon (gal) = 16 cups (c)

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Strategies for Customary Measurement, Continued

Customary Weight



Customary Units of Weight

1 pound (lb) = 16 ounces (oz)
 1 ton (T) = 2,000 pounds

Units of Time

1 minute (min) = 60 seconds (s)

1 hour (h) = 60 min

1 day (d) = 24 h

1 week (wk) = 7 d

1 year (y) = 52 wk = 12 months (mo)

Conversion Tables

Create a conversion table to show the relationship between two units. In this example, the conversion table shows weeks and days.

| weeks (wk) | days (d) | (wk, d) |
|------------|----------|---------|
| 1 | 7 | (1, 7) |
| 2 | 14 | (2, 14) |
| 3 | 21 | (3, 21) |
| 4 | 28 | (4, 28) |

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