## JC Schools 6th Grade Yearly Math Standards

| Units | Priority Standards | Supporting Standards |
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| Unit 1 | $\begin{array}{l}\text { 6.DSP.A.2 } \\ \text { Statistics } \\ \text { Understand that a set of data collected to answer a statistical } \\ \text { question has a distribution which can be described by its } \\ \text { center, spread and overall shape. }\end{array}$ | $\begin{array}{l}\text { 6.DSP.A.1 } \\ \text { Recognize a statistical question as one that } \\ \text { anticipates variability in the data related to the } \\ \text { question and accounts for it in the answers. }\end{array}$ |
| $\begin{array}{l}\text { Unit End Date: Sept. 23 } \\ \text { Unit Assessment } \\ \text { Window: Sept. 16-30 }\end{array}$ | $\begin{array}{l}\text { 6.DSP.B.4.a,b } \\ \text { Display and interpret data. } \\ \text { a. Use dot plots, histograms and box plots to display and } \\ \text { interpret numerical data. } \\ \text { b. Create and interpret circle graphs. } \\ \text { 6.DSP.A.3 }\end{array}$ |  |
| Recognize that a measure of center for a |  |  |
| numerical data set summarizes all of its values |  |  |
| with a single number, while a measure of |  |  |
| variation describes how its values vary from a |  |  |
| single number. |  |  |$]$| 6.DSP.B.5.c-d |
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| Summarize numerical data sets in relation to the context. |
| c. Give quantitative measures of center (median and/or |
| mean) and variability (interquartile range and/or mean |
| absolute deviation), as well as describing any overall pattern |
| and any striking deviations from the overall pattern with |
| reference to the context of the data. |
| d. Analyze the choice of measures of center and variability |
| based on the shape of the data distribution and/or the context |
| of the data. |$\quad$| 6.DSP.B.5.a-b |
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| Summarize numerical data sets in relation to |
| the context. |
| a. Report the number of observations. |
| b. Describe the nature of the attribute under |
| investigation, |


6.NS.C. 5

Use positive and negative numbers to represent quantities.

## 6.NS.C.6.b

Locate a rational number as a point on the number line.
b. Write, interpret and explain problems of ordering of rational numbers.

| Unit 3 <br> Number Operations <br> 31 Days <br> Unit End Date: Dec. 8 <br> Unit Assessment <br> Window: Dec. 1-15 | 6.NS.A.1.a <br> Compute and interpret quotients of positive fractions. <br> a. Solve problems involving division of fractions by fractions. | 6.NS.B. 2 <br> Demonstrate fluency with division of multi-digit whole numbers. <br> 6.NS.B. 3 <br> Demonstrate fluency with addition, subtraction, multiplication and division of decimals. |
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| Unit 4 <br> Ratios \& Rates <br> 26 Days <br> Unit End Date: Jan. 28 <br> Unit Assessment <br> Window: Jan. 21-Feb. 4 | 6.RP.A. 1 <br> Understand a ratio as a comparison of two quantities and represent these comparisons. <br> 6.RP.A.3.a-d <br> Solve problems involving ratios and rates. <br> a. Create tables of equivalent ratios, find missing values in the tables and plot the pairs of values on the Cartesian coordinate plane. <br> b. Solve unit rate problems. <br> c. Solve percent problems. <br> d. Convert measurement units within and between two systems of measurement. | 6.RP.A. 2 <br> Understand the concept of a unit rate associated with a ratio, and describe the meaning of unit rate. |
| Unit 5 <br> Expressions <br> 17 Days <br> Unit End Date: <br> Feb. 23 <br> Unit Assessment <br> Window: <br> Feb. 15-Mar. 2 | 6.EEI.A. 1 <br> Describe the difference between an expression and an equation. <br> 6.EEI.A.2.a-e <br> Create and evaluate expressions involving variables and whole number exponents. <br> d. Write and evaluate algebraic expressions. <br> e. Understand the meaning of the variable in the context of the situation. <br> 6.EEI.A. 3 | 6.EEI.A.2.a-e <br> Create and evaluate expressions involving variables and whole number exponents. <br> a. Identify parts of an expression using mathematical terminology. <br> b. Evaluate expressions at specific values of the variables. <br> c. Evaluate non---negative rational number expressions. <br> 6.GM.A. 1 <br> Find the area of polygons by composing or |

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\begin{array}{|l|l|l|}\hline & \begin{array}{l}\text { Identify and generate equivalent algebraic expressions using } \\
\text { mathematical properties. }\end{array} & \begin{array}{l}\text { decomposing the shapes into rectangles or } \\
\text { triangles. }\end{array}
$$ <br>

6.GM.A.2.a,b\end{array}\right]\)| Find the volume of right rectangular prisms. |
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| a. Understand that the volume of a right |
| rectangular prism can be found by filling the |
| prism with multiple layers of the base. |
| b. Apply $\mathrm{V}=\mathrm{I}^{*} \mathrm{w}$ * h and $\mathrm{V}=\mathrm{Bh}$ to find the |
| volume of right rectangular prisms. |


|  |  | Recognize that inequalities may have infinitely many solutions. <br> a. Write an inequality of the form $\mathrm{x}>\mathrm{c}, \mathrm{x}<\mathrm{c}, \mathrm{x}$ $\geq c$, or $x \leq c$ to represent a constraint or condition. <br> b. Graph the solution set of an inequality. |
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| Unit 7 <br> Geometry <br> 32 Days <br> Unit End Date: May 17 <br> Unit Assessment <br> Window: May 10-24 | 6.GM.A.3.a-d <br> Solve problems by graphing points in all four quadrants of the Cartesian coordinate plane <br> a. Understand signs of numbers in ordered pairs as indicating locations in quadrants of the Cartesian coordinate plane <br> b. Recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes <br> c. Find distances between points with the same first coordinate or the same second coordinate <br> d. Construct polygons in the Cartesian coordinate plane | 6.GM.A.4.a,b <br> Solve problems using nets. <br> a. Represent three-dimensional figures using nets made up of rectangles and triangles. <br> b. Use nets to find the surface area of three-dimensional figures whose sides are made up of rectangles and triangles. |

