Mathematics Curriculum

Subject Area: Modified Math 2
CCSS Conceptual Category: Number and Quantity
CCSS Domain: The Real Number System (N-RN)
Show-Me Standards

| CCSS <br> Cluster | Common Core Standard <br> (D)=District Standard | Show Me Standards | DOK | Instructional Strategies Student Activities/Resources | Assessment |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | The students will: |  |  |  |  |
|  | 1. apply the properties of exponents including order of operations to simplify expressions and solve equations. | $\begin{array}{cc} \text { MA } 1 & \text { MA } 5 \\ 1.10 & 2.1 \end{array}$ |  | 1. Simplify an expression using the Power of a Power rule. | 1. Simplify the expression $3 x^{6}$ times $4 x^{5}$. <br> (SMP 1, 2) |

## Mathematics Curriculum

## Subject Area: Modified Math 2 <br> CCSS Conceptual Category: Number and Quantity <br> <br> CCSS Domain: Quantities (N-Q)

 <br> <br> CCSS Domain: Quantities (N-Q)}Show-Me Standards

| ccss <br> Cluster | Common Core Standard (D)=District Standard | Show Me Standards | DOK | Instructional Strategies Student Activities/Resources | Assessment |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | The students will: |  |  |  |  |
|  | 3. choose a level of accuracy appropriate to limitations on measurement when reporting quantities. | $\begin{gathered} \text { MA } 5 \\ 1.5 \end{gathered}$ |  | 3. Decide whether a problem calls for a rough estimate, an approximation, or an exact answer. | 3. The margin of error varies according to use and context. <br> (SMP 1,2,4,5,6) |

Mathematics Curriculum

## Subject Area: Modified Math 2

## CCSS Conceptual Category: Algebra

## CCSS Domain: Seeing Structure in Expressions (A-SSE)

Show-Me Standards

| CCSS <br> Cluster | Common Core Standard (D)=District Standard | Show Me Standards | DOK | Instructional Strategies Student Activities/Resources | Assessment |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | The students will: |  |  |  |  |
| Interpret the structure of expressions | 1. interpret expressions that represent a quantity in terms of its context. <br> a. interpret parts of an expression, such as terms, factors, and coefficients. | $\begin{gathered} \text { MA } 1 \\ 3.1 \\ \\ \text { MA } 5 \\ 1.6 \end{gathered}$ |  | 1a. Identify and define terms, factors and coefficients in an algebraic expression. | 1a. Students should be able to recognize and interpret the parts of an expression. <br> (SMP 1,2,4,7) |

Mathematics Curriculum

## Subject Area: Modified Math 2

CCSS Conceptual Category: Algebra

## CCSS Domain: Seeing Structure in Expressions (A-SSE)

Show-Me Standards

| CCSS <br> Cluster | Common Core Standard <br> (D)=District Standard | Show Me Standards | DOK | Instructional Strategies Student Activities/Resources | Assessment |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | The students will: |  |  |  |  |
| Write expressions in equivalent forms to solve problems | 3. choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression. | $\begin{gathered} \text { MA } 1 \\ 3.1 \end{gathered}$ |  | 3. Given an expression, write equivalent forms of the expression using properties of real numbers. | 3. Rewrite $x+2$ using the commutative law. <br> (SMP 1,2,3,4,7) |

Mathematics Curriculum

## Subject Area: Modified Math 2 <br> CCSS Conceptual Category: Algebra <br> CCSS Domain: Creating Equations (A-CED)

Show-Me Standards

| CCSS <br> Cluster | Common Core Standard <br> (D)=District Standard | Show Me <br> Standards | DOK | Instructional Strategies <br> Student Activities/Resources |  |
| :--- | :--- | :---: | :---: | :--- | :--- |
|  | The students will: |  |  |  | Assessment |

## Mathematics Curriculum

## Subject Area: Modified Math 2

## CCSS Conceptual Category: Algebra

## CCSS Domain: Reasoning with Equations and Inequalities (A-REI)

## Show-Me Standards

| ccss Cluster | Common Core Standard (D)=District Standard | Show Me Standards | DOK | Instructional Strategies Student Activities/Resources | Assessment |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | The students will: |  |  |  |  |
| Understand solving equations as a process of reasoning and explain the reasoning | 1. explain each step in solving a simple equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method. | MA 1 <br> MA 5 <br> 3.4 |  | 1. Correctly apply the properties of equalities in a multi step problem. | 1. Explain why the equation $x / 3$ $+7 / 2=5$ has the same solutions as $2 x+21=30$. <br> (SMP 1,3,6) |

Mathematics Curriculum

## Subject Area: Modified Math 2

CCSS Conceptual Category: Algebra

## CCSS Domain: Reasoning with Equations and Inequalities (A-REI)

Show-Me Standards


Mathematics Curriculum

## Subject Area: Modified Math 2

CCSS Conceptual Category: Algebra

## CCSS Domain: Reasoning with Equations and Inequalities (A-REI)

Show-Me Standards

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| :---: | :---: | :---: | :---: | :---: | :---: |
|  | The students will: |  |  |  |  |
|  | 10. understand that the graph of an equation in two variables is the set of all its solutions plotted in the coordinate plane, forming a line. | $\begin{gathered} \text { MA } 3 \\ 1.5 \\ 1.8 \end{gathered}$ | $\begin{aligned} & \stackrel{\rightharpoonup}{0} \\ & \stackrel{0}{0} \\ & \stackrel{0}{0} \\ & \stackrel{訁}{\bar{E}} \end{aligned}$ | 10. Interpret a graph as a collection of infinite solutions ( x , y). | 10. Given $2 x+3 y=6$ is the point $(1,4)$ a solution? <br> (SMP 4,5,6) |

## Subject Area: Modified Math 2

## CCSS Conceptual Category: Functions

CCSS Domain: Interpreting Functions (F-IF)
Show-Me Standards


Mathematics Curriculum

## Subject Area: Modified Math 2

## CCSS Conceptual Category: Functions

## CCSS Domain: Building Functions (F-BF)

Show-Me Standards


## Mathematics Curriculum



Mathematics Curriculum

## Subject Area: Modified Math 2

CCSS Conceptual Category: Statistics and Probability

## CCSS Domain: Interpreting Categorical and Quantitative Data (S-ID)

Show-Me Standards

| CCSS Cluster | Common Core Standard (D)=District Standard | Show Me Standards | DOK | Instructional Strategies Student Activities/Resources | Assessment |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | The students will: |  |  |  |  |
| Summarize, represent, and interpret data on a single count or measurement variable | 1. represent data with plots on the real number line with dot plots. <br> 2. use statistics appropriate to the shape of the data distribution to compare measures of central tendency. (mean, median, mode and range) | $\begin{gathered} \text { MA } 3 \\ 1.8 \end{gathered}$ |  | 1. Construct a dot plot that best represents a set of data. <br> 2. Given a set of test scores, find the mean, median, mode and range. | 1. Construct a dot plot for the set of data. <br> 2. Given $89,87,56,92$ as test scores, find the mean, median, mode and range. <br> (SMP 1,2,3,4,5,8) |

Mathematics Curriculum

## Subject Area: Modified Math 2

CCSS Conceptual Category: Statistics and Probability
CCSS Domain: Interpreting Categorical and Quantitative Data (S-ID)
Show-Me Standards

| CCSS <br> Cluster | Common Core Standard (D)=District Standard | Show Me Standards | DOK | Instructional Strategies Student Activities/Resources | Assessment |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | The students will: |  |  |  |  |
|  | 6. represent data on two quantitative variables on a scatter plot, and describe how the variables are related. | $\begin{gathered} \text { MA } 3 \\ 1.8 \end{gathered}$ |  | 6. Provide data that will produce linear functions. | 6. DESE: Linear Equation Unit Lesson 1 <br> (SMP 1,2,4,5) |

