## Statewide Transportation, Distribution, and Logistics (TDL) Curriculum Contextualized Math Module

Students will:

| OUTCOMES | CONTENT | ACTIVITIES/RESOURCES | ASSESSMENT |
| :---: | :---: | :---: | :---: |
| 1. Develop successful study skills in math | Math anxiety <br> Personal success strategies in math | - Math anxiety inventory - Use: Revised Math Attitude Scale <br> - Math anxiety discussion - Use: Math Anxiety Discussion Handouts (Ten Ways to Reduce Math Anxiety, Math Anxiety Code of Responsibility) <br> - Mathematics Diagnostic Test <br> - Learning Styles Inventory <br> - Discussion on success strategies in math | Student demonstration <br> Teacher observation |
| 2. Solve whole number problems in TDL contextualized formats | Whole numbers <br> Integers and Order of Operations | - i-Pathways: Basic Math—Unit 1: Lesson 2 Addition and Subtraction, Lesson 3 - Multiplication and Division, and Lesson 4 - Problem Solving <br> - CARS: Math—Unit 1: Whole Numbers (Lessons 1-4) <br> - Integers and Order of operations explanation <br> - Use: Resource file worksheets | Student demonstration <br> Teacher observation |
|  | Applications | - Use: TDL Math Learning Project 1 - Trucking <br> - Use: TDL Math Learning Project 2 - Warehousing \& Distribution Center Operations | Student completion of project(s) |
| 3. Solve fraction problems in TDL contextualized format | Equivalent fractions <br> Factors and lowest terms | - Review of fractions and all properties <br> - i-Pathways: Basic Math—Unit 1: Lesson 2 Addition and Subtraction, Lesson 3 - Multiplication and Division, and Lesson 4 - Problem Solving. <br> - i-Pathways: Basic Math—Unit 3: Fractions: All lessons. <br> - CARS: Math—Unit 3: Fractions (Lessons 1-5) | Student demonstration <br> Teacher observation |

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| 6. Use percents, averages and estimates in the TDL and business contexts | Percents <br> Averages <br> Estimates | - Definition of percentage <br> - Computing averages/average cost per unit <br> - Estimating material and labor cost <br> - i-Pathways: Basic Math—Unit 7: Lesson 1, Decimals and Percents, Lesson 2 - Fractions and Percents <br> - CARS: Math—Unit 7: Percents—Lessons 1-3) CARS: Math—Appendix B: Elementary Statistics: Mean, Median, Mode <br> - Use: Resource file worksheets | Student demonstration <br> Teacher observation |
|  | Applications | - Use: TDL Math Learning Project 2 - Warehousing \& Distribution Center Operations <br> - Use: TDL Math Learning Project 3 - Staffing Logistics | Student completion of project(s) |
| 7. Solve percent proportion problems | Percent proportions | - Using percentages with proportions <br> - i-Pathways: Basic Math—Unit 7: Lesson Lesson 3 - Applications with Percents and Lesson 5 Percent of Increase and Percent of Decrease <br> - Use: Resource file worksheets | Student demonstration |
|  | Applications | - Use: TDL Math Learning Project 3 - Staffing Logistics | Student completion of project |

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| 10. Interpret graphic representation of data from work settings | Basic Statistics (Mean, Median, Mode) | - Line graphs <br> - Pie graphs <br> - Bar graphs <br> - Mean, median, and mode <br> - i-Pathways: Math—Unit 1: Lesson 5, Mean, Median, and Mode <br> - CARS: Math-Appendix A: Reading Graphs and Charts | Student demonstration <br> Teacher observation |
|  | Applications | - Use: TDL Math Learning Project 2 - Warehousing \& Distribution Center Operations | Student completion of project |
| 11. Use formulas and equations to solve problems | Working with formulas | - Work <br> - Energy <br> - Area of triangles and circles <br> - Volume of sphere, prism, cylinder, and cone | Student demonstration <br> Teacher |
|  | Writing expressions | - Writing expressions from word problems <br> - Evaluating expressions <br> - i-Pathways: Math—Unit 2: Lesson 1 Variable and Algebraic Expressions <br> - CARS: Math—Unit 9: Introduction to Algebra—Lesson 1: Variables and Algebraic Expressions |  |
|  | Solving equations | - Solving linear equations <br> - Use: Resource file worksheets |  |

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| 12. Solve practical geometry and trigonometry problems | Pythagorean Theorem | - Definition of the Pythagorean Theorem <br> - Applications of the Pythagorean Theorem <br> - Planning delivery routes <br> - i-Pathways: Math—Unit 3: Lesson 2, Classifying Triangles and the Pythagorean Theorem <br> - CARS: Math—Unit 10: Introduction to Geometry—Lesson 2: Classifying Triangles and the Pythagorean Theorem <br> - Use: Resource file worksheets | Student demonstration <br> Teacher observation |

