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

OUTCOMES	CONTENT	ACTIVITIES/RESOURCES	ASSESSMENT
3. Solve fraction problems in TDL contextualized format (Continued)	Evaluating fractions with like and unlike terms Complex fractions Improper fractions and mixed numbers	<ul> <li>Addition of fractions</li> <li>Subtraction of fractions</li> <li>Multiplication of fractions</li> <li>Division of fractions</li> <li>Definition and explanation of complex fractions</li> <li>Working with improper fractions</li> <li>Working with mixed numbers</li> <li>i-Pathways: <i>Basic Math</i>—Unit 4: Mixed Numbers: All Lessons</li> <li>CARS: <i>Math</i>—Unit 3: Fractions (Lessons 1-5)</li> <li>Use: <b>TDL Math Learning Project 1 – Trucking</b></li> </ul>	Student demonstration Teacher observation Student completion of
<ol> <li>Solve decimal problems</li> </ol>	Significant digits Rounding rules Scientific notation	<ul> <li>Use: TDL Math Learning Project 2 – Warehousing Distribution Center Operations</li> <li>Significant digits explanation</li> <li>Rounding rules and review</li> <li>i-Pathways: <i>Basic Math</i>—Unit 5: Decimal Numbers: All Lessons</li> <li>Scientific notations and exponents explanation</li> </ul>	project(s)

OUTCOMES	CONTENT	ACTIVITIES/RESOURCES	ASSESSMENT
<ol> <li>Solve decimal problems (continued)</li> </ol>	Evaluating with decimal numbers Decimal and common fraction equivalents	<ul> <li>Addition and subtraction of decimals</li> <li>Multiplication and division of decimals</li> <li>CARS: <i>Math</i>—Unit 5: Decimal Numbers(Lessons 1-3)</li> <li>Use: Resource file worksheets</li> <li>Converting between decimal fractions and common fractions</li> </ul>	Student demonstration Teacher observation
	Applications	<ul> <li>Use: TDL Math Learning Project 1 – Trucking</li> <li>Use: TDL Math Learning Project 2 – Warehousing &amp; Distribution Center Operations</li> </ul>	Student completion of project(s)
5. Solve ratio and proportion problems in the TDL context	Ratios Proportions	<ul> <li>Definition of ratios, rates, and unit rates/prices, conversions</li> <li>Definition of proportion</li> <li>Load size, floor space, time and distance, etc.</li> <li>Cost per unit, miles per gallon, shipping rates, etc.</li> <li>i-Pathways: <i>Basic Math</i>—Unit 6: Lesson 2 Ratios and Proportions</li> <li>CARS: <i>Math</i>—Unit 6: Ratios and Proportions (Lessons 1-4):and Unit 7: Percents(Lesson 6)</li> </ul>	Student demonstration Teacher observation
	Applications	<ul> <li>Use: Resource file worksheets</li> <li>Use: TDL Math Learning Project 1 – Trucking</li> <li>Use: TDL Math Learning Project 3 – Staffing Logistics</li> </ul>	Student completion of project(s)

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

OUTCOMES	CONTENT	ACTIVITIES/RESOURCES	ASSESSMENT
8. Complete TDL applications of basic measurements	Geometry	<ul> <li>Geometry formulas: perimeter, area, volume</li> <li>Time and Distance</li> <li>Work/Energy</li> <li>Angles and triangles</li> <li>Circles</li> <li>i-Pathways: <i>Math</i>—Unit 3: Lesson 2, Classifying Triangle, Lesson 4 Circles, and Lesson 5 Area of Polygons</li> <li>CARS: <i>Math</i>—Unit 10: Introduction to Geometry—Lesson 1: Points, Lines, Planes, and Angles Lesson 2: Classifying Triangles and The Pythagorean Theorem Lesson 4: Circles</li> <li>Use: TDL Math Learning Project 2 – Warehousing &amp; Distribution Center Operations</li> </ul>	Student demonstration Teacher observation Student completion of project
<b>9.</b> Solve problems with exponents and roots with order of operations in applied settings	Exponents Roots	<ul> <li>Definition of exponents</li> <li>Exponent rules</li> <li>Exponents in Area and Volume</li> <li>CARS: <i>Math</i>—Unit 2: Exponents, Prime Numbers, &amp; Least Common Multiples—Lesson 1: Exponents Lesson 2: Order of Operations Unit 5: Decimal Numbers—Lesson 5: Square Roots and Pythagorean Theorem</li> <li>Definition of roots</li> <li>Rules of roots</li> <li>i-Pathways: <i>Basic Math</i>—Unit 3: Lesson 1- Exponents</li> <li>Use: <b>Resource file worksheets</b></li> </ul>	Student demonstration Teacher observation

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

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