

## TN Core INTEGRATED MATH I CONTENT MAP

<b>Unit 1: Relationships Between Quantities</b>			
<b>Lesson</b>	<b>Sub-lesson number</b>	<b>Title</b>	<b>Standard(s)</b>
<b>Lesson 1</b>	<b>Interpreting Structure in Expressions</b>		
	1.1.1	Identifying Terms, Factors, and Coefficients	A–SSE.1a★
	1.1.2	Interpreting Complicated Expressions	A–SSE.1b★
<b>Lesson 2</b>	<b>Creating Equations and Inequalities in One Variable</b>		
	1.2.1	Creating Linear Equations in One Variable	A–CED.1★ N–Q.2★ N–Q.3★
	1.2.2	Creating Linear Inequalities in One Variable	A–CED.1★
	1.2.3	Creating Exponential Equations	A–CED.1★ A–SSE.3c★
<b>Lesson 3</b>	<b>Creating and Graphing Equations in Two Variables</b>		
	1.3.1	Creating and Graphing Linear Equations in Two Variables	A–CED.2★ N–Q.1★
	1.3.2	Creating and Graphing Exponential Equations	A–CED.2★ N–Q.1★
<b>Lesson 4</b>	<b>Representing Constraints</b>		
	1.4.1	Representing Constraints	A–CED.3★
<b>Lesson 5</b>	<b>Rearranging Formulas</b>		
	1.5.1	Rearranging Formulas	A–CED.4★
<b>Unit 2: Linear and Exponential Relationships</b>			
<b>Lesson</b>	<b>Sub-lesson number</b>	<b>Title</b>	<b>Standard(s)</b>
<b>Lesson 1</b>	<b>Graphs As Solution Sets and Function Notation</b>		
	2.1.1	Graphing the Set of All Solutions	A–REI.10
	2.1.2	Intersecting Graphs	A–REI.11★
	2.1.3	Domain and Range	F–IF.1
<b>Lesson 2</b>	2.1.4	Function Notation and Evaluating Functions	F–IF.2
	<b>Solving Linear Inequalities in Two Variables and Systems of Inequalities</b>		
	2.2.1	Solving Linear Inequalities in Two Variables	A–REI.12
<b>Lesson 3</b>	2.2.2	Solving Systems of Linear Inequalities	A–REI.12
	<b>Sequences As Functions</b>		
2.3.1	Sequences As Functions	F–IF.3	

<b>Lesson 4</b>	<b>Interpreting Graphs of Functions</b>		
	2.4.1	Identifying Key Features of Linear and Exponential Graphs	F-IF.4★ F-IF.5★
	2.4.2	Proving Average Rate of Change	F-IF.6★ F-LE.1a★
	2.4.3	Recognizing Average Rate of Change	F-IF.6★ F-LE.1b★ F-LE.1c★
<b>Lesson 5</b>	<b>Analyzing Linear and Exponential Functions</b>		
	2.5.1	Graphing Linear Functions	F-IF.7a★
	2.5.2	Graphing Exponential Functions	F-IF.7e★
<b>Lesson 6</b>	<b>Comparing Functions</b>		
	2.6.1	Comparing Linear Functions	F-IF.9
	2.6.2	Comparing Exponential Functions	F-IF.9
	2.6.3	Comparing Linear to Exponential Functions	F-LE.3★
<b>Lesson 7</b>	<b>Building Functions</b>		
	2.7.1	Building Functions from Context	F-BF.1a★
	2.7.2	Constructing Functions from Graphs and Tables	F-LE.2★
<b>Lesson 8</b>	<b>Operating on Functions and Transformations</b>		
	2.8.1	Operating on Functions	F-BF.1b★
	2.8.2	Transformations of Linear and Exponential Functions	F-BF.3
<b>Lesson 9</b>	<b>Arithmetic and Geometric Sequences</b>		
	2.9.1	Arithmetic Sequences	F-BF.2★
	2.9.2	Geometric Sequences	F-BF.2★
<b>Lesson 10</b>	<b>Interpreting Parameters</b>		
	2.10.1	Interpreting Parameters	F-LE.5★
<b>Unit 3: Reasoning with Equations</b>			
<b>Lesson</b>	<b>Sub-lesson number</b>	<b>Title</b>	<b>Standard(s)</b>
<b>Lesson 1</b>	<b>Solving Equations and Inequalities</b>		
	3.1.1	Properties of Equality	A-REI.1
	3.1.2	Solving Linear Equations	A-REI.3
	3.1.3	Solving Linear Inequalities	A-REI.3
	3.1.4	Solving Exponential Equations	A-REI.3
<b>Lesson 2</b>	<b>Solving Systems of Equations</b>		
	3.2.1	Proving Equivalencies	A-REI.5
	3.2.2	Solving Systems of Linear Equations	A-REI.6

**Unit 4: Descriptive Statistics**

Lesson	Sub-lesson number	Title	Standard(s)
<b>Lesson 1</b>	<b>Working with a Single Measurement Variable</b>		
	4.1.1	Representing Data Sets	S-ID.1★
	4.1.2	Comparing Data Sets	S-ID.2★
	4.1.3	Interpreting Data Sets	S-ID.3★
<b>Lesson 2</b>	<b>Working with Two Categorical and Quantitative Variables</b>		
	4.2.1	Summarizing Data Using Two-Way Frequency Tables	S-ID.5★
	4.2.2	Solving Problems Given Functions Fitted to Data	S-ID.6a★
	4.2.3	Analyzing Residuals	S-ID.6b★
<b>Lesson 3</b>	<b>Interpreting Linear Models</b>		
	4.2.4	Fitting Linear Functions to Data	S-ID.6c★
	4.3.1	Interpreting Slope and $y$ -intercept	S-ID.7★
	4.3.2	Calculating and Interpreting the Correlation Coefficient	S-ID.8★
	4.3.3	Distinguishing Between Correlation and Causation	S-ID.9★

**Unit 5: Congruence and Proof**

Lesson	Sub-lesson number	Title	Standard(s)
<b>Lesson 1</b>	<b>Introducing Transformations</b>		
	5.1.1	Defining Terms	G-CO.1
	5.1.2	Transformations As Functions	G-CO.2
	5.1.3	Applying Lines of Symmetry	G-CO.3
<b>Lesson 2</b>	<b>Defining and Applying Rotations, Reflections, and Translations</b>		
	5.2.1	Defining Rotations, Reflections, and Translations	G-CO.4
	5.2.2	Applying Rotations, Reflections, and Translations	G-CO.5
<b>Lesson 3</b>	<b>Exploring Congruence</b>		
	5.3.1	Describing Rigid Motions and Predicting the Effects	G-CO.6
	5.3.2	Defining Congruence in Terms of Rigid Motions	G-CO.6
<b>Lesson 4</b>	<b>Congruent Triangles</b>		
	5.4.1	Triangle Congruency	G-CO.7
	5.4.2	Explaining ASA, SAS, and SSS	G-CO.8
<b>Lesson 5</b>	<b>Proving Theorems About Lines and Angles</b>		
	5.5.1	Proving the Vertical Angles Theorem	G-CO.9
	5.5.2	Proving Theorems About Angles in Parallel Lines Cut by a Transversal	G-CO.9

<b>Lesson 6</b>	<b>Proving Theorems About Triangles</b>		
	5.6.1	Proving the Interior Angle Sum Theorem	G-CO.10
	5.6.2	Proving Theorems About Isosceles Triangles	G-CO.10
	5.6.3	Proving the Midsegment of a Triangle	G-CO.10
	5.6.4	Proving Centers of Triangles	G-CO.10
<b>Lesson 7</b>	<b>Proving Theorems About Parallelograms</b>		
	5.7.1	Proving Properties of Parallelograms	G-CO.11
	5.7.2	Proving Properties of Special Quadrilaterals	G-CO.11