MATATAG → Math → Grade 9

MATATAG → Math → Grade 9 Topic	New File Name	File Type	Level of Skill Progression
Q1		I	
simple geometric concepts and notations	DEV_Video - Label and Name Points, Lines, Rays and Angles Using Math Notation	video	Developing
	DEV_Video - Congruent Angles Formed by Parallel Lines and a Transversal	video	Developing
	DEV_Video - Find Angles Formed by Parallel Lines and a Transversal	video	Developing
	DEV_Video - Relations and Functions	video	Developing
	DEV_Discussion Presentation - Construction: Creating a Line Parallel to Another Line	ppt	Developing
	DEV_Discussion Presentation - Construction: Creating a Line Perpendicular to Another Line	ppt	Developing
	DEV_Discussion Presentation - Pairs of Angles	ppt	Developing
	DEV_Discussion Presentation - Parallel and Perpendicular Lines	ppt	Developing
	DEV_Discussion Presentation - Angles Formed by Parallel Lines Cut by a Transversal Line	ppt	Developing
	DEV_Discussion Presentation - Solving Problems Involving Parallel Lines Cut by a Transversal Line	ppt	Developing
	DEV_Discussion Presentation - Properties of Parallel Lines	ppt	Developing
perpendicular and parallel lines, and angles formed by parallel lines cut by a transversal	DEV_Discussion Presentation - Proving Parallel Lines	ppt	Developing
	DEV_Discussion Presentation - Proving Perpendicular Lines	ppt	Developing
	DEV_Printable Worksheet - Construction: Creating a Line Parallel to Another Line	pdf	Developing
	DEV_Printable Worksheet - Construction: Creating a Line Perpendicular to Another Line	pdf	Developing
	DEV_Printable Worksheet - Pairs of Angles	pdf	Developing
	DEV_Printable Worksheet - Parallel and Perpendicular Lines	pdf	Developing
	DEV_Printable Worksheet - Angles Formed by Parallel Lines Cut by a Transversal Line	pdf	Developing
	DEV_Printable Worksheet - Solving Problems Involving Parallel Lines Cut by a Transversal Line	pdf	Developing
	DEV_Printable Worksheet - Properties of Parallel Lines	pdf	Developing
	DEV_Printable Worksheet - Proving Parallel Lines	pdf	Developing
	DEV_Printable Worksheet - Proving Perpendicular Lines	pdf	Developing

	DEV_eContent - Inductive Reasoning: Angles and Parallel Lines_BU	html	Developing
	DEV_eContent - Inductive Reasoning: Angles and Parallel Lines_STR	html	Developing
	DEV_eContent - Inductive Reasoning: Angles and Parallel Lines_MAS	html	Developing
	DEV_eContent - Inductive Reasoning: Transversal Line_BU	html	Developing
	DEV_eContent - Inductive Reasoning: Transversal Line_STR	html	Developing
perpendicular and parallel lines, and angles formed by parallel lines cut by a transversal	DEV_eContent - Inductive Reasoning: Transversal Line_MAS	html	Developing
	DEV_eContent - Linear Functions_BU	html	Developing
	DEV_eContent - Linear Functions_STR	html	Developing
	DEV_eContent - Linear Functions_MAS	html	Developing
	PRO_Video - Parallel and Perpendicular Lines	video	Proficient
	PRO_Video - Graphing Parallel and Perpendicular Lines	video	Proficient
relations and functions	DEV_Discussion Presentation - Relations and Functions	ppt	Developing
	DEV_Printable Worksheet - Relations and Functions	pdf	Developing

	DEV_Video - Show the Relationship Between Variables Using a Graph	video	Developing
	DEV_Video - Change a Linear Equation to Slope-Intercept Form	video	Developing
	DEV_Video - Write the Equation of a Line from Given Graph	video	Developing
	DEV_Video - Describe Relations and Functions	video	Developing
	DEV_Video - Functions Slope, Y Intercept Equation from a Table	video	Developing
	DEV_Video - Learn the Basics of How to Determine the Domain and Range of a Function	video	Developing
	DEV_Video - Relationship Between Variables	video	Developing
	DEV_Video - Create Appropriate Linear Relationships by Graphing	video	Developing
	DEV_Video - Determine the Domain and Range from a Graph	video	Developing
	DEV_Video - Determine the Rate of Change and Initial Value of Linear Relationships from Tables	video	Developing
graphs of linear functions, and the identification of domain and range, slope, intercepts, and zeros	DEV_Video - Determining the Constant Rate of Change	video	Developing
	DEV_Video - Facts About Linear Functions	video	Developing
	DEV_Video - Identify Linear Functions Linking Equal Differences to Equal Intervals	video	Developing
	DEV_Video - Identifying Slope Y-Intercept of a Linear Function from a Table	video	Developing
	DEV_Video - Learn How to Determine the Domain and Range from a Function	video	Developing
	DEV_Video - Understand Domain Restriction in Linear Functions in Terms of Real-World Context	video	Developing
	DEV_Video - What Is a Linear Function and Is It Concrete or Discrete	video	Developing
	DEV_Discussion Presentation - Linear Functions	ppt	Developing
	DEV_Discussion Presentation - Problems Involving Linear Functions	ppt	Developing
	DEV_Printable Worksheet - Linear Functions	pdf	Developing
	DEV_Printable Worksheet - Problems Involving Linear Functions	pdf	Developing

Q2			
	DEV_Video - Applications of Parallelograms	video	Developing
parallelism and perpendicularity of lines	DEV_Discussion Presentation - Theorems on Parallelograms	ppt	Developing
	DEV_Printable Worksheet - Theorems on Parallelograms	pdf	Developing
	DEV_Video - How to Find the Missing Length of a Trapezoid Using the Midsegment Formula	video	Developing
	DEV_Video - How to Use the Midsegment Theorem to Find the Length of a Base of a Trapezoid	video	Developing
	DEV_Video - Determining the Length of a Kite Using the Pythagorean Theorem	video	Developing
	DEV_Video - Application of the Properties of Parallelograms	video	Developing
	DEV_Video - How to Find the Missing Angle of a Kite	video	Developing
	DEV_Video - Use Parallel Lines and Triangle Congruence Theorems to Prove Properties of Diagonals Within Parallelograms	video	Developing
different quadrilaterals and their	DEV_Video - Use Parallel Lines and Triangle Congruence Theorems to Prove Properties of Parallelograms	video	Developing
properties	DEV_Discussion Presentation - Undefined Terms in Geometry	ppt	Developing
	DEV_Discussion Presentation - Quadrilaterals and Parallelograms	ppt	Developing
	DEV_Printable Worksheet - Undefined Terms in Geometry	pdf	Developing
	DEV_Printable Worksheet - Quadrilaterals and Parallelograms	pdf	Developing
	DEV_eContent - Quadrilaterals_BU	html	Developing
	DEV_eContent - Quadrilaterals_STR	html	Developing
	DEV_eContent - Quadrilaterals_MAS	html	Developing

DE ¹	EV_Video - Geometry - Triangle Proofs EV_Video - Proofs Using CPCTC EV_Video - Use Triangle Congruence to Prove Triangle Relationships EV_Video - Use Congruence Criteria by Writing Proofs EV_Discussion Presentation - Construction - Bisecting a Line Segment	video video video video	Developing Developing Developing
DE	EV_Video - Use Triangle Congruence to Prove Triangle Relationships EV_Video - Use Congruence Criteria by Writing Proofs EV_Discussion Presentation - Construction - Bisecting a Line Segment	video	
DEV	EV_Video - Use Congruence Criteria by Writing Proofs EV_Discussion Presentation - Construction - Bisecting a Line Segment		Developing
<u> </u>	EV_Discussion Presentation - Construction - Bisecting a Line Segment	video	
DE			Developing
		ppt	Developing
DE	EV_Discussion Presentation - Construction - Angle Bisector	ppt	Developing
DE	EV_Discussion Presentation - Congruent Triangles	ppt	Developing
DE	EV_Discussion Presentation - Proving Triangle Congruence	ppt	Developing
DE	EV_Discussion Presentation - Solving Corresponding Parts Congruent Triangles	ppt	Developing
DE	EV_Discussion Presentation - Proving Isosceles Triangle Congruence	ppt	Developing
	EV_Discussion Presentation - Midline Theorem and Theorems on Trapezoids and Kites	ppt	Developing
congruence of triangles DEV	EV_Printable Worksheet - Construction - Bisecting a Line Segment	pdf	Developing
DE	EV_Printable Worksheet - Construction - Angle Bisector	pdf	Developing
DE	EV_Printable Worksheet - Congruent Triangles	pdf	Developing
DE	EV_Printable Worksheet - Proving Triangle Congruence	pdf	Developing
DE	EV_Printable Worksheet - Solving Corresponding Parts Congruent Triangles	pdf	Developing
DE	EV_Printable Worksheet - Proving Isosceles Triangle Congruence	pdf	Developing
DE	EV_Printable Worksheet - Midline Theorem and Theorems on Trapezoids and Kites	pdf	Developing
DE	EV_eContent - Triangle Congruence_BU	html	Developing
DE	EV_eContent - Triangle Congruence_STR	html	Developing
DE	EV_eContent - Triangle Congruence_MAS	html	Developing
PRO	RO_Video - Proving Triangle Congruence and Similarity	video	Proficient
DE	EV_Video - Deductive Reasoning with Proofs	video	Developing
DE	EV_Video - Geometry Beginning Proofs (Level 2 of 3)	video	Developing
DE	EV_Discussion Presentation - Deductive and Inductive Reasoning	ppt	Developing
DE	EV_Discussion Presentation - Writing Proofs	ppt	Developing
DE	EV_Discussion Presentation - SSS Postulate	ppt	Developing
congruence proofs DE	EV_Printable Worksheet - Deductive and Inductive Reasoning	pdf	Developing
DE	EV_Printable Worksheet - Writing Proofs	pdf	Developing
	EV_Printable Worksheet - SSS Postulate	pdf	Developing
DE	EV_eContent - If-Then Statements_BU	html	Developing
DE	EV_eContent - If-Then Statements_STR	html	Developing
DE	EV_eContent - If-Then Statements_MAS	html	Developing

Q3			
quadratic equations and graphs of quadratic functions	DEV_Discussion Presentation - Discriminant of Quadratic Equations	ppt	Developing
	DEV_Discussion Presentation - Quadratic Equations	ppt	Developing
	DEV_Printable Worksheet - Discriminant of Quadratic Equations	pdf	Developing
	DEV_Printable Worksheet - Quadratic Equations	pdf	Developing
	PRO_Video - Introduction to Quadratic Equations	video	Proficient
	DEV_Video - Find Zeros, Extreme Values and Lines of Symmetry Using Different Forms	video	Developing
	DEV_Video - Find the Maximum or Minimum Value of a Quadratic Equation Using Vertex Form Real-World Application	video	Developing
	DEV_Video - Graph Quadratic Equations Using Vertex Form and the Leading Coefficient	video	Developing
	DEV_Video - Graph Quadratic Functions	video	Developing
	DEV_Video - Introduction to Quad Functions and Graphs	video	Developing
	DEV_Video - Solve Real-World Problems Using Quadratic Graphs	video	Developing
	DEV_Video - Understand Parabola Features and Examine Effects of Coefficients on a Graph	video	Developing
	DEV_Video - Write a Quadratic Equation in Vertex Form by Completing the Square	video	Developing
	DEV_Video - Write and Graph a Quadratic Function by Examining a Table	video	Developing
	DEV_Video - Solve a Quadratic Equation Using Inspection	video	Developing
	DEV_Video - Solve a Quadratic Equation by Factoring	video	Developing
	DEV_Video - Solve a Quadratic Equation by Inspection	video	Developing
	DEV_Discussion Presentation - Solving Quadratic Equations by Extracting the Square Roots	ppt	Developing
the solution of quadratic equations	DEV_Discussion Presentation - Solving Quadratic Equations by Factoring	ppt	Developing
	DEV_Discussion Presentation - Solving Quadratic Equations Completing the Squares	ppt	Developing
	DEV_Discussion Presentation - Solving Quadratic Equations Using the Quadratic Formula	ppt	Developing
	DEV_Printable Worksheet - Solving Quadratic Equations by Extracting the Square Roots	pdf	Developing
	DEV_Printable Worksheet - Solving Quadratic Equations by Factoring	pdf	Developing
	DEV_Printable Worksheet - Solving Quadratic Equations Completing the Squares	pdf	Developing
	DEV_Printable Worksheet - Solving Quadratic Equations Using the Quadratic Formula	pdf	Developing
	DEV_eContent - Quadratic Formula_BU	html	Developing
	DEV_eContent - Quadratic Formula_STR	html	Developing
	DEV_eContent - Quadratic Formula_MAS	html	Developing
	PRO_Video - Completing The Square - Quadratics	video	Proficient
	PRO_Video - Solving Quadratics by Using the Quadratic Formula	video	Proficient
	PRO_Video - Algebra - Quadratic Formula - Solving Quadratics	video	Proficient
	PRO_Video - Solving Quadratics by Factoring	video	Proficient

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similarity of polygons	DEV_Video - Determine Similarity by Comparing Angles	video	Developing
	DEV_Video - Angles of Triangles and Similarity	video	Developing
	DEV_Video - Find Corresponding Angles of Similar Triangles	video	Developing
	DEV_Video - Determine If Two Right Triangles Are Similar	video	Developing
	DEV_Discussion Presentation - Similarity of Triangles and Other Polygons	ppt	Developing
special triangles	DEV_Discussion Presentation - Proving Similarity of Triangles and Pythagorean Theorem	ppt	Developing
	DEV_Discussion Presentation - Solving Problems Involving Triangles	ppt	Developing
	DEV_Printable Worksheet - Similarity of Triangles and Other Polygons	pdf	Developing
	DEV_Printable Worksheet - Proving Similarity of Triangles and Pythagorean Theorem	pdf	Developing
	DEV_Printable Worksheet - Solving Problems Involving Triangles	pdf	Developing
	DEV_Video - How to Write Graph Direct Variation Equations	video	Developing
	DEV_Video - Identify Direct and Inverse Variation by Looking at the Shape of Graphs	video	Developing
	DEV_Discussion Presentation - Direct Variation	ppt	Developing
	DEV_Discussion Presentation - Inverse Variation	ppt	Developing
	DEV_Printable Worksheet - Direct Variation	pdf	Developing
direct and inverse variation	DEV_Printable Worksheet - Inverse Variation	pdf	Developing
direct and inverse variation	DEV_eContent - Direct Variation_BU	html	Developing
	DEV_eContent - Direct Variation_STR	html	Developing
	DEV_eContent - Direct Variation_MAS	html	Developing
	DEV_eContent - Indirect Variation_BU	html	Developing
	DEV_eContent - Indirect Variation_STR	html	Developing
	DEV_eContent - Indirect Variation_MAS	html	Developing

Q4				
	DEV_Video - Triangle Sum Theorem and Exterior Angle Theorem	video	Developing	
triangle theorems and triangle inequality	DEV_Discussion Presentation - Inequalities in One Triangle	ppt	Developing	
	DEV_Discussion Presentation - Triangle Inequality Theorem and Hinge Theorem	ppt	Developing	
	DEV_Discussion Presentation - Midline Theorem and Theorems on Trapezoids and Kites	ppt	Developing	
theorems	DEV_Printable Worksheet - Inequalities in One Triangle	pdf	Developing	
	DEV_Printable Worksheet - Triangle Inequality Theorem and Hinge Theorem	pdf	Developing	
	DEV_Printable Worksheet - Midline Theorem and Theorems on Trapezoids and Kites	pdf	Developing	
	PRO_Video - The Triangle Midsegment Theorem	video	Proficient	
	DEV_Video - Apply Trigonometry and the Pythagorean Theorem in Context	video	Developing	
	DEV_Video - Determine the Domain of the Six Trigonometric Functions Using Ratio Denominators	video	Developing	
	DEV_Video - Evaluate Your Six Trigonometric Functions When Given a Point Not on the Unit Circle	video	Developing	
	DEV_Video - Evaluating the Six Trigonometric Functions Given a Right Triangle	video	Developing	
	DEV_Video - Find Values of Trigonometric Functions Using a Unit Circle	video	Developing	
	DEV_Video - Model with Angles of Elevation and Depression	video	Developing	
	DEV_Discussion Presentation - Trigonometric Ratios	ppt	Developing	
	DEV_Discussion Presentation - Trigonometric Ratios of Special Angles	ppt	Developing	
	DEV_Discussion Presentation - Angles of Elevation and Depression	ppt	Developing	
	DEV_Discussion Presentation - Solving Word Problems Involving Right Triangles	ppt	Developing	
	DEV_Printable Worksheet - Trigonometric Ratios	pdf	Developing	
the trigonometric ratios and their application	DEV_Printable Worksheet - Trigonometric Ratios of Special Angles	pdf	Developing	
	DEV_Printable Worksheet - Angles of Elevation and Depression	pdf	Developing	
	DEV_Printable Worksheet - Solving Word Problems Involving Right Triangles	pdf	Developing	
	DEV_eContent - Pythagorean Theorem_BU	html	Developing	
	DEV_eContent - Pythagorean Theorem_STR	html	Developing	
	DEV_eContent - Pythagorean Theorem_MAS	html	Developing	
	DEV_eContent - Trigonometric Ratios: Special Angles_BU	html	Developing	
	DEV_eContent - Trigonometric Ratios: Special Angles_STR	html	Developing	
	DEV_eContent - Trigonometric Ratios: Special Angles_MAS	html	Developing	
	PRO_Video - Angles of Elevation and Depression	video	Proficient	
	PRO_Video - Solving Trigonometric Equations	video	Proficient	
	PRO_Video - Trigonometric Functions Sine, Cosine, Tangent, Cosecant, Secant, and Cotangent	video	Proficient	
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interpretation and analysis of data to assess whether the data may be misleading	DEV_Discussion Presentation - Organization and Presentation of Data	ppt	Developing
	DEV_Printable Worksheet - Organization and Presentation of Data	pdf	Developing
probabilities of simple and compound events	DEV_Discussion Presentation - Experiment, Outcomes, Sample Space, and Events	ppt	Developing
	DEV_Discussion Presentation - Probability of Compound Events, Conditional Probability, and Independence	ppt	Developing
	DEV_Printable Worksheet - Experiment, Outcomes, Sample Space, and Events	pdf	Developing
	DEV_Printable Worksheet - Probability of Compound Events, Conditional Probability, and Independence	pdf	Developing