

**MATATAG → Math → Grade 7**

Topic	New File Name	File Type	Level of Skill Progression
<b>Q1</b>			
<b>regular and irregular polygons and their features/properties</b>	DEV_Video - Draw Shapes with a Specified Number of Angles	video	Developing
	DEV_Video - Regular Polygons	video	Developing
	DEV_Discussion Presentation - Regular and Irregular Polygons	ppt	Developing
	DEV_Printable Worksheet - Regular and Irregular Polygons	pdf	Developing
<b>determination of measures of angles and number of sides of polygons</b>	DEV_Video - Regular and Irregular Polygons	video	Developing
	DEV_Video - What Is the Difference Between Convex and Concave Polygons	video	Developing
	DEV_Discussion Presentation - Angles of a Polygon	ppt	Developing
	DEV_Discussion Presentation - Sides of a Polygon	ppt	Developing
	DEV_Discussion Presentation - Interior Angles of a Convex Polygon	ppt	Developing
	DEV_Discussion Presentation - Exterior Angles of a Convex Polygon	ppt	Developing
	DEV_Discussion Presentation - Constructing Polygons	ppt	Developing
	DEV_Discussion Presentation - Solving Problems Involving the Sides and Angles of a Polygon	ppt	Developing
	DEV_Discussion Presentation - Kinds of Angles	ppt	Developing
	DEV_Discussion Presentation - Exterior Angle Inequality Theorem	ppt	Developing
	DEV_Printable Worksheet - Angles of a Polygon	pdf	Developing
	DEV_Printable Worksheet - Sides of a Polygon	pdf	Developing
	DEV_Printable Worksheet - Interior Angles of a Convex Polygon	pdf	Developing
	DEV_Printable Worksheet - Exterior Angles of a Convex Polygon	pdf	Developing
	DEV_Printable Worksheet - Constructing Polygons	pdf	Developing
	DEV_Printable Worksheet - Solving Problems Involving the Sides and Angles of a Polygon	pdf	Developing
	DEV_Printable Worksheet - Kinds of Angles	pdf	Developing
	DEV_Printable Worksheet - Exterior Angle Inequality Theorem	pdf	Developing
	DEV_eContent - Convex Polygons_BU	html	Developing
	DEV_eContent - Convex Polygons_STR	html	Developing
	DEV_eContent - Convex Polygons_MAS	html	Developing

application of percentages	DEV_Video - Understand Percent Problems	video	Developing
	DEV_Video - Finding Discount Tax	video	Developing
	DEV_Video - How to Calculate Percentage Change (Increase or Decrease)	video	Developing
	DEV_Video - Percentage: Increase and Decrease (Multiplier Method)	video	Developing
	DEV_Discussion Presentation - Solving Word Problems Involving Percentage	ppt	Developing
	DEV_Discussion Presentation - Solving Word Problems Involving Discount, Markup, Commission, and Interest	ppt	Developing
	DEV_Printable Worksheet - Solving Word Problems Involving Percentage	pdf	Developing
	DEV_Printable Worksheet - Solving Word Problems Involving Discount, Markup, Commission, and Interest	pdf	Developing
	PRO_Video - Simple Interest	video	Proficient
use of rates	DEV_Video - Define Unit Rate Using Double Number Line	video	Developing
	DEV_Video - Solve Rate Problems Using Double Number Lines	video	Developing
	DEV_Video - Rates and Unit Rates	video	Developing
	DEV_Video - Understand Rates as Special Types of Ratios	video	Developing
	DEV_Video - Identify Rational Numbers	video	Developing
	DEV_Discussion Presentation - Identifying Base, Percentage, and Rate	ppt	Developing
	DEV_Discussion Presentation - Solving Problems Involving the Missing Base, Percentage, and Rate	ppt	Developing
	DEV_Discussion Presentation - Finding the Percentage, Base, or Rate	ppt	Developing
	DEV_Discussion Presentation - Calculating Speed	ppt	Developing
	DEV_Printable Worksheet - Identifying Base, Percentage, and Rate	pdf	Developing
	DEV_Printable Worksheet - Solving Problems Involving the Missing Base, Percentage, and Rate	pdf	Developing
	DEV_Printable Worksheet - Finding the Percentage, Base, or Rate	pdf	Developing
	DEV_Printable Worksheet - Calculating Speed	pdf	Developing
	DEV_eContent - Rational Numbers_BU	html	Developing
	DEV_eContent - Rational Numbers_STR	html	Developing
	DEV_eContent - Rational Numbers_MAS	html	Developing
rational numbers	DEV_Video - Compare and Order Numbers Written as Fractions or Decimals	video	Developing
	DEV_Video - Locate Positive Rational Numbers Using a Number Line	video	Developing
	DEV_Discussion Presentation - Operations Involving Rational Numbers	ppt	Developing
	DEV_Printable Worksheet - Operations Involving Rational Numbers	pdf	Developing

Q2			
square roots of perfect squares, cube roots of perfect cubes, and irrational numbers	DEV_Video - Find Square Roots of Perfect Squares	video	Developing
	DEV_Video - Locating Irrational Numbers on a Number Line (Part 1)	video	Developing
	DEV_Video - Locating Irrational Numbers on a Number Line (Part 2)	video	Developing
	DEV_Video - Understand and Apply the Definition of Irrational Numbers	video	Developing
	DEV_Discussion Presentation - Square Roots	ppt	Developing
	DEV_Discussion Presentation - Irrational Numbers	ppt	Developing
	DEV_Printable Worksheet - Square Roots	pdf	Developing
	DEV_Printable Worksheet - Irrational Numbers	pdf	Developing
conversion of units of measure	DEV_Video - Metric Conversions: Conversions of Mass	video	Developing
	DEV_Video - Metric Conversions: Conversions of Volume	video	Developing
	DEV_Video - Metric Conversions: Conversion of Distance and Length	video	Developing
	DEV_Discussion Presentation - Conversion of Measurements	ppt	Developing
	DEV_Discussion Presentation - Problems Involving Units of Measurement	ppt	Developing
	DEV_Printable Worksheet - Conversion of Measurements	pdf	Developing
	DEV_Printable Worksheet - Problems Involving Units of Measurement	pdf	Developing
volume of square and rectangular pyramids, and cylinders	DEV_Video - High Five Facts - Pyramids	video	Developing
	DEV_Video - Solve Real-World Problems Involving Pyramids	video	Developing
	DEV_Video - Volume of Prisms and Pyramids - the Formula of a Pyramid	video	Developing
	DEV_Video - Determining the Volume of Rectangular Pyramid	video	Developing
	DEV_Video - Develop and Apply the Formula for Volume of a Cylinder	video	Developing
	DEV_Video - Find the Volume of a Cylinder	video	Developing
	DEV_Video - Solve Real-World Problems by Finding Volume of Cylinders	video	Developing
	DEV_Video - Solve Real-World Problems Involving Cylinders	video	Developing
	DEV_Discussion Presentation - Polygon and Other Related Terms	ppt	Developing
	DEV_Discussion Presentation - Cylinder, Cone, and Sphere	ppt	Developing
	DEV_Discussion Presentation - Volumes of Cylinder and Cone	ppt	Developing
	DEV_Discussion Presentation - Surface Area of Cylinders	ppt	Developing
	DEV_Discussion Presentation - Surface Area of Square and Rectangular Pyramids	ppt	Developing
	DEV_Printable Worksheet - Polygon and Other Related Terms	pdf	Developing
	DEV_Printable Worksheet - Cylinder, Cone, and Sphere	pdf	Developing
	DEV_Printable Worksheet - Volumes of Cylinder and Cone	pdf	Developing
	DEV_Printable Worksheet - Surface Area of Cylinders	pdf	Developing
	DEV_Printable Worksheet - Surface Area of Square and Rectangular Pyramids	pdf	Developing

sets and subsets, and the union and intersection of sets using Venn diagrams	DEV_Video - Determine the Union of Two Subsets	video	Developing
	DEV_Video - Identify the Union of Two Events	video	Developing
	DEV_Discussion Presentation - Sets and Set Operations	ppt	Developing
	DEV_Discussion Presentation - Operations on Sets	ppt	Developing
	DEV_Discussion Presentation - Sets and Venn Diagram	ppt	Developing
	DEV_Discussion Presentation - Subsets of a Line	ppt	Developing
	DEV_Printable Worksheet - Sets and Set Operations	pdf	Developing
	DEV_Printable Worksheet - Operations on Sets	pdf	Developing
	DEV_Printable Worksheet - Sets and Venn Diagram	pdf	Developing
	DEV_Printable Worksheet - Subsets of a Line	pdf	Developing
	DEV_eContent - Venn Diagram_BU	html	Developing
	DEV_eContent - Venn Diagram_STR	html	Developing
	DEV_eContent - Venn Diagram_MAS	html	Developing
subset of real numbers	DEV_Video - Identify the Intersection of Two Events	video	Developing
	DEV_Discussion Presentation - The Real Number System	ppt	Developing
	DEV_Discussion Presentation - Problems Involving Real Numbers	ppt	Developing
	DEV_Printable Worksheet - The Real Number System	pdf	Developing
	DEV_Printable Worksheet - Problems Involving Real Numbers	pdf	Developing

Q3			
data collection and sampling techniques, and the presentation of data in appropriate tables and graphs	BEG_Discussion Presentation - Organizing Data in Tables	ppt	Beginning
	DEV_Video - Create a Histogram		Developing
	DEV_Discussion Presentation - Collecting Data	ppt	Developing
	DEV_Discussion Presentation - Presenting Data in Different Kinds of Bar Graphs	ppt	Developing
	DEV_Printable Worksheet - Collecting Data	pdf	Developing
	DEV_Printable Worksheet - Organizing Data in Tables	pdf	Developing
	DEV_Printable Worksheet - Presenting Data in Different Kinds of Bar Graphs	pdf	Developing
interpretation of statistical graphs	BEG_Discussion Presentation - Data Interpretation from Single- and Double-Bar Graphs	ppt	Beginning
	DEV_Video - Draw Inferences from Data in a Dot Plot	video	Developing
	DEV_Video - Construct a Dot Plot	video	Developing
	DEV_Discussion Presentation - Inferences from Single- and Double-Bar Graphs	ppt	Developing
	DEV_Discussion Presentation - Problems Involving Single- and Double-Bar Graphs	ppt	Developing
	DEV_Discussion Presentation - Outcomes in a Simple Experiment	ppt	Developing
	DEV_Discussion Presentation - Problems Involving Simple Experiments	ppt	Developing
	DEV_Printable Worksheet - Data Interpretation from Single- and Double-Bar Graphs	pdf	Developing
	DEV_Printable Worksheet - Inferences from Single- and Double-Bar Graphs	pdf	Developing
	DEV_Printable Worksheet - Problems Involving Single- and Double-Bar Graphs	pdf	Developing
	DEV_Printable Worksheet - Outcomes in a Simple Experiment	pdf	Developing
	DEV_Printable Worksheet - Problems Involving Simple Experiments	pdf	Developing
the set of integers, and comparing and ordering integers	DEV_Video - Compare Two Positive or Negative Numbers in Real-World Situations	video	Developing
	DEV_Video - Find the Value of a Number Using Its Distance and Direction from Zero	video	Developing
	DEV_Video - Ordering Integers Using a Number Line	video	Developing
	DEV_Video - Relate Positive and Negative Quantities	video	Developing
	DEV_Video - Understand Negative Numbers Using a Number Line	video	Developing
	DEV_Video - Understanding Positive and Negative Numbers with Money	video	Developing
	DEV_Discussion Presentation - Exploring the Set of Integers	ppt	Developing
	DEV_Discussion Presentation - Comparing Integers	ppt	Developing
	DEV_Discussion Presentation - Arranging Integers	ppt	Developing
	DEV_Printable Worksheet - Exploring the Set of Integers	pdf	Developing
	DEV_Printable Worksheet - Comparing Integers	pdf	Developing
	DEV_Printable Worksheet - Arranging Integers	pdf	Developing

the four operations with integers	DEV_Video - Divide Integers Using Inverse Operations	video	Developing
	DEV_Video - Divide Positive and Negative Integers by Observing Patterns	video	Developing
	DEV_Video - Multiply Integers Using Patterns	video	Developing
	DEV_Video - Subtract Integers Using Number Lines	video	Developing
	DEV_Video - Adding Positive and Negative Integers on a Number Line	video	Developing
	DEV_Video - Multiply a Negative by a Negative Using the Distributive Property	video	Developing
	DEV_Discussion Presentation - Adding Integers	ppt	Developing
	DEV_Discussion Presentation - Subtracting Integers	ppt	Developing
	DEV_Discussion Presentation - Solving Word Problems Involving Addition and Subtraction of Integers	ppt	Developing
	DEV_Printable Worksheet - Adding Integers	pdf	Developing
	DEV_Printable Worksheet - Subtracting Integers	pdf	Developing
	DEV_Printable Worksheet - Solving Word Problems Involving Addition and Subtraction of Integers	pdf	Developing
	DEV_eContent - Adding & Subtracting Integers_BU	html	Developing
	DEV_eContent - Adding & Subtracting Integers_STR	html	Developing
	DEV_eContent - Adding & Subtracting Integers_MAS	html	Developing
	DEV_eContent - Multiplying & Dividing Integers_BU	html	Developing
	DEV_eContent - Multiplying & Dividing Integers_STR	html	Developing
	DEV_eContent - Multiplying & Dividing Integers_MAS	html	Developing
	DEV_eContent - Integer Operations_BU	html	Developing
	DEV_eContent - Integer Operations_STR	html	Developing
	DEV_eContent - Integer Operations_MAS	html	Developing
	PRO_Video - Negative Numbers	video	Proficient
simplification of numerical expressions involving integers	DEV_Video - Solve Multi-Step Problems Using Order of Operations	video	Developing
	DEV_Video - Evaluating Expressions with Integers	video	Developing
absolute value of an integer	DEV_Video - Find Absolute Value Using a Number Line	video	Developing
	DEV_Video - Use a Number Line to Understand the Relationship Between Rational Numbers and Absolute Value	video	Developing
	DEV_Discussion Presentation - Absolute Value	ppt	Developing
	DEV_Discussion Presentation - Integers and Operations Involving Integers	ppt	Developing
	DEV_Discussion Presentation - Properties of Operations on Set of Integers	ppt	Developing
	DEV_Printable Worksheet - Absolute Value	pdf	Developing
	DEV_Printable Worksheet - Integers and Operations Involving Integers	pdf	Developing
	DEV_Printable Worksheet - Properties of Operations on Set of Integers	pdf	Developing

Q4			
the solution of simple equations	DEV_Discussion Presentation - Basic Terms in Algebra	ppt	Developing
	DEV_Printable Worksheet - Basic Terms in Algebra	pdf	Developing
	PRO_Video - Introduction to Algebra Using Variables	video	Proficient
the evaluation of algebraic expressions following substitution	DEV_Video - Algebra - Evaluating Expressions	video	Developing
	DEV_Video - Evaluate One-Step Algebraic Expressions by Substitution	video	Developing
	DEV_Video - How to Write Algebraic Expressions and Phrases	video	Developing
	DEV_Video - Translating Verbal Expressions into Algebraic Expressions	video	Developing
	DEV_Video - Algebraic Equations	video	Developing
	DEV_Discussion Presentation - Translating Verbal Phrases into Algebraic Expressions	ppt	Developing
	DEV_Discussion Presentation - Representing Quantities in Real-Life Situations Using Algebraic Expressions and Equations	ppt	Developing
	DEV_Discussion Presentation - Evaluating Algebraic Expressions and Equations	ppt	Developing
	DEV_Discussion Presentation - Solving Routine and Nonroutine Problems Involving Types of Numerical Expressions and Equations	ppt	Developing
	DEV_Discussion Presentation - Terms Related to Algebraic Expressions	ppt	Developing
	DEV_Discussion Presentation - Evaluating Algebraic Expressions	ppt	Developing
	DEV_Printable Worksheet - Translating Verbal Phrases into Algebraic Expressions	pdf	Developing
	DEV_Printable Worksheet - Representing Quantities in Real-Life Situations Using Algebraic Expressions and Equations	pdf	Developing
	DEV_Printable Worksheet - Evaluating Algebraic Expressions and Equations	pdf	Developing
	DEV_Printable Worksheet - Solving Routine and Nonroutine Problems Involving Types of Numerical Expressions and Equations	pdf	Developing
	DEV_Printable Worksheet - Terms Related to Algebraic Expressions	pdf	Developing
	DEV_Printable Worksheet - Evaluating Algebraic Expressions	pdf	Developing
	DEV_eContent - Phrases to Algebraic Expressions_BU	html	Developing
	DEV_eContent - Phrases to Algebraic Expressions_STR	html	Developing
	DEV_eContent - Phrases to Algebraic Expressions_MAS	html	Developing

the rearrangement of a formula to make a different variable the subject of the formula	DEV_Video - How to Solve Algebraic Equations (Part 1 of 3)	video	Developing
	DEV_Video - How to Solve Algebraic Equations (Part 2 of 3)	video	Developing
	DEV_Video - How to Solve Algebraic Equations (Part 3 of 3)	video	Developing
	DEV_Video - Write Algebraic Expressions Using Multiplication and Division	video	Developing
	DEV_Video - Writing Algebraic Equations (Addition, Subtraction)	video	Developing
	DEV_Video - Relate Variables Using an Equation	video	Developing
	PRO_Video - Solving Simple Equations Using Inspection	video	Proficient
	PRO_Video - Algebraic Word Problems	video	Proficient
	PRO_Video - Solving Algebra Word Problems	video	Proficient
outcomes from experiments	DEV_Video - Analyze the Probability of an Event by Assigning Equal Probability to All Outcomes	video	Developing
	DEV_Video - Learning About Probability	video	Developing
	DEV_Video - Probability, Likelihood: Understanding the Probability Ratio!	video	Developing
	DEV_Discussion Presentation - Experiments and Outcomes	ppt	Developing
	DEV_Printable Worksheet - Experiments and Outcomes	pdf	Developing
operations using scientific notation	DEV_Video - Compare Large Numbers Using Scientific Notation	video	Developing
	DEV_Video - Compare Small Numbers Using Scientific Notation	video	Developing
	DEV_Video - Convert from Standard to Scientific Notation	video	Developing
	DEV_Video - Divide Numbers in Scientific Notation	video	Developing
	DEV_Video - Multiply Numbers in Scientific Notation	video	Developing
	DEV_Discussion Presentation - Scientific Notation	ppt	Developing
	DEV_Printable Worksheet - Scientific Notation	pdf	Developing
	PRO_Video - Scientific Notation and Dimensional Analysis	video	Proficient