

Quinton Township School District
Math
Grade 7
[Pacing Guide](#)

Marking Period:	1	Unit Title:	Topic 1: Rational Number Operations	Pacing:	25 days
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Unit Summary: Topic 1 exposes students to integers and integer operations. For a given set of integers there are relationships between positives and negative numbers that are always true, and these are the rules that govern arithmetic and algebra. Students will represent addition and subtraction on a horizontal and vertical number line diagram and learn rules for multiplying and dividing integers. They will be able to apply and extend previous understandings of fractions to add, subtract, multiply, and divide rational numbers. They will apply these concepts to solve real world problems including the four operations with rational numbers.

Objectives:

- Understand how integers and their opposites are related.
- Identify rational numbers and write them in decimal form.
- Add positive and negative integers.
- Model integer addition in real-life applications.
- Understand subtraction of integers as adding the additive inverse.
- Use properties of operations to add and subtract rational numbers.
- Multiply positive and negative integers.
- Apply integer multiplication to real-life applications.
- Find the product of rational numbers.
- Understand how to divide integers by applying the rules of multiplying integers.
- Determine equivalencies among integer quotients.
- Understand how the signs of integers in a multiplication sentence relate to the signs in a related division statement.

- Decide which operations to use to solve problems.
- Use precision when solving problems with rational numbers.
- Use mathematical modeling to represent a problem situation and to propose a solution.
- Test and verify the appropriateness of their math models.

Essential Questions:

- How can the properties of operations be used to solve problems involving integers and rational numbers?
- How are integers and their opposites related?
- How are rational numbers written as decimals?
- How do you use what you know about absolute value to add integers?
- How is subtracting integers related to adding integers?
- How are adding and subtracting integers related to adding and subtracting other rational numbers?
- How do the signs of factors affect their product?
- How is multiplying rational numbers like multiplying integers?
- How does dividing integers relate to multiplying integers?
- How is dividing rational numbers like dividing integers?
- How do you decide which rational number operations to use to solve problems?

New Jersey Student Learning Standards

Mathematics Learning Targets: 7.NS.A.1a, 7.NS.A.1b, 7.NS.A.1c, 7.NS.A.1d, 7.NS.A.2a, 7.NS.A.2b, 7.NS.A.2c, 7.NS.A.2d, 7.NS.A.3, 7.EE.B.3

Mathematics Practices: MP.4, MP.7, MP.6, MP.8

Interdisciplinary Connections: RI.TS.7.4, SL.PE.7.1

Career Readiness, Life Literacies, and Key Skills: 9.4.8.GCA.2, 9.4.8.CI.1, 9.4.8.CT.1

Computer Science and Design Thinking: 9.4.8.TL.2, 9.4.8.TL.3, 8.1.8.DA.1

Overview of Activities	Teacher's Guide/ Resources	Core Instructional Materials	Technology Infusion
1.1 - Relate Integers and Their Opposites 1.2 - Understand Rational Numbers 1.3 - Add Integers 1.4 - Subtract Integers 1.5 - Add and Subtract Rational Numbers 1.6 - Multiply Integers 1.7 - Multiply Rational Numbers 1.8- Divide Integers 1.9- Divide Rational Numbers 1.10-Solving Problems with Rational Numbers	<i>enVision</i> Mathematics *Daily Review *Reteach to Build Understanding *Build Mathematical Literacy *Enrichment * <i>enVision</i> Stem Activity *Problem Solving Leveled-Reading Mat *Problem-Solving Reading Activity *Digital Math Tools Activities *Language Support Handguide *Listen and Look For *Home-School Connection	Student Textbook Additional Practice Workbook Notebook Pen/Pencil Index Cards	● Smart Board Applications ● Google Applications ● Interactive student edition ● Today's Challenge ● Adaptive Practice ● Desmos ● IXL

Assessments

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Formative Assessments • Topic Performance Task • Oral questioning • Using questioning strategies in TE • Reteach for Understanding • Classwork & Basic Skill Practice • Corrections & Reflections • Kahoot! • Quizizz • Desmos • Rubric-for projects • Self-reflection • Adaptive practice- on-line Savvas resources • Exit Slip • HW	Summative Assessments • Topic 1 Performance Task/Assessment • Lesson Quizzes Suggested skills to be assessed: • Convert Between Fractions and Decimals • Add and Subtract Rational Numbers • Multiply and Divide Rational Numbers
Benchmark Assessments • District-assigned Benchmark Assessments (e.g. LinkIt, literacy screeners, content-specific benchmarks)	Alternative Assessments • Alternative Choice Projects • Oral Assessments

Differentiation			
Special Education	MLL	At Risk	Gifted and Talented
• Modify and accommodate as listed in student IEP or 504 plan. • Utilize wait time effectively. • Communicate clear, concise directions and repeat, reword, modify as necessary. • Use visual aids during lessons and small-group time.	• Basic Skills Instruction • Speech/Language Therapy • Rosetta Stone • Provide English/Native Language Dictionary for use. • Place with native-language-speaking teacher/paraprofessional as	• Basic Skills Instruction • Provide after-school tutoring services. • Hold fall and spring parent conferences. • Make modifications to instructional plans based on I and RS Plan.	• Promote self-initiated and self-directed learning for growth through independent projects. • Challenge students with age-appropriate texts at higher reading levels. • Allow for the development and application of productive

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• Utilize open-ended questioning techniques. • Utilize extended time and/or reduce number of items given for homework, quizzes, and tests. • Vary formative assessment styles to drive next point of instruction. • Create modified assessments. • Allow students to utilize online audio books, when appropriate. • Allow for collaboration through strategically selected groups. • Utilize assistive technology as appropriate. • Utilize graphic organizers. • Provide and model sentence frames/sentence starters. • Utilize manipulatives as necessary. • Provide breaks to allow for refocusing as necessary.	• available. • Use target words and cognates to understand texts. • Remind students to underline passages and list words they don't understand. • Learn/Utilize/Display some words in the students' native language. • Provide and model sentence frames to help students participate in discussion. • Provide word banks to help students write. • Translate printed communications in native language for parents. • Hold conferences with translator present.	• Utilize wait time effectively. • Develop a record system to encourage good behavior and completion of work. • Utilize scaffolding to support instruction. • Provide counseling if necessary to help students cope with challenges. • Utilize strategic grouping with a positive academic role model. • Utilize graphic organizers.	thinking skills to enable students to re-conceptualize existing knowledge and/or generate new knowledge. • Provide for the development of self-understanding of one's relationships with people, societal institutions, nature and culture.
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Quinton Township School District
Math
Grade 7

Marking Period:	1	Unit Title:	Topic 2: Analyze and Use Proportional Relationships	Pacing:	20 days
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Unit Summary: In Topic 2, students will analyze proportional relationships and use them to solve real world and mathematical problems. Students will be able to use ratios and proportions to solve problems, including those with tables and graphs.

Objectives:

- Use ratios and rates to describe the relationship between two quantities.
- Find equivalent ratios and use unit rates to solve multi-step problems.
- Find unit rates with ratios of fractions.
- Use unit rates to solve multi-step problems.
- Determine whether quantities are proportional by testing for equivalent ratios.
- Use the constant or proportionality to write equations that represent proportional relationships.
- Use equations to solve problems involving proportional relationships.
- Use mathematical modeling to represent a problem situation and to propose a solution.
- Test and verify the appropriateness of math models.
- Explain why the results from mathematical models may not align exactly to the problem situation.
- Use a graph to recognize proportionality.
- Identify a constant of proportionality from a graph.
- Interpret a point on a graph of a proportional relationship.
- Explain whether a situation represents a proportional relationship.

- Explain whether a situation represents a proportional relationship.
- Use representation to find entry points into a problem.

Essential Questions:

- How are ratios, rates and unit rates used to solve problems?
- Why is it useful to write a ratio of fractions as a unit rate?
- How are proportional quantities described by equivalent ratios?
- How can you represent a proportional relationship with an equation?
- What does the graph of proportional relationship look like?
- How can proportional reasoning help solve a problem?

New Jersey Student Learning Standards

Mathematics Learning Targets: 7.RP.A.1, 7.RP.A.2a, 7.RP.A.2b, 7.RP.A.3

Mathematics Practices: MP.2, MP.3

Interdisciplinary Connections: RI.TS.7.4, SL.PE.7.1

Career Readiness, Life Literacies, and Key Skills: 9.4.8.GCA.2, 9.4.8.CI.1, 9.4.8.CT.1

Computer Science and Design Thinking: 9.4.8.TL.2, 9.4.8.TL.3, 8.1.8.DA.1

Career Education: 9.2.8.CAP.20

Overview of Activities	Teacher's Guide/ Resources	Core Instructional Materials	Technology Infusion
2.1 - Connect Ratios, Rates, and Unit Rates 2.2 - Determine Unit Rates with Ratios of Fractions 2.3 - Understand Proportional Relationships:Equivalent Ratios 2.4 - Describe Proportional Relationships: Constant of Proportionality 2.5 - Graph Proportional Relationships 2.6 - Apply Proportional Reasoning to Solve Problems	<i>enVision</i> Mathematics *Daily Review *Reteach to Build Understanding *Build Mathematical Literacy *Enrichment * <i>enVision</i> Stem Activity *Problem Solving Leveled Reading Mat *Problem-Solving Reading Activity *Digital Math Tools Activities *Language Support Handguide *Listen and Look For *Home-School Connection	Student Textbook Additional Practice Workbook Notebook Pen/Pencil Index Cards	● Smart Board Applications ● Google Applications ● Interactive student edition ● Today's Challenge ● Adaptive Practice ● Desmos ● IXL

Assessments	
Formative Assessments ● Topic Performance Task ● Oral questioning ● Using questioning strategies in TE ● Reteach for Understanding ● Classwork & Basic Skill Practice	Summative Assessments ● Topic 2 Performance Task/Assessment ● Lesson Quizzes Suggested skills to be assessed: ● Determine Unit Rates

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• Corrections & Reflections • Kahoot! • Quizizz • Desmos • Rubric-for projects • Self-reflection • Adaptive practice- on-line Savvas resources • Exit Slip • HW	• Compare Ratios and Rates • Determine Proportionality • Solve problems using equations in the form $y=kx$ • Graphs of Proportional Relationships
Benchmark Assessments • District-assigned Benchmark Assessments (e.g. LinkIt, literacy screeners, content-specific benchmarks)	Alternative Assessments • Alternative Choice Projects • Oral Assessments

Differentiation			
Special Education	MLL	At Risk	Gifted and Talented
• Modify and accommodate as listed in student IEP or 504 plan. • Utilize wait time effectively. • Communicate clear, concise directions and repeat, reword, modify as necessary. • Use visual aids during lessons and small-group time. • Utilize open-ended questioning techniques. • Utilize extended time and/or reduce number of items given for homework, quizzes, and tests. • Vary formative assessment styles to drive next point of instruction. • Create modified assessments.	• Basic Skills Instruction • Speech/Language Therapy • Rosetta Stone • Provide English/Native Language Dictionary for use. • Place with native-language-speaking teacher/paraprofessional as available. • Use target words and cognates to understand texts. • Remind students to underline passages and list words they don't understand. • Learn/Utilize/Display some words in the students' native language.	• Basic Skills Instruction • Provide after-school tutoring services. • Hold fall and spring parent conferences. • Make modifications to instructional plans based on I and RS Plan. • Utilize wait time effectively. • Develop a record system to encourage good behavior and completion of work. • Utilize scaffolding to support instruction. • Provide counseling if necessary to help students cope with	• Promote self-initiated and self-directed learning for growth through independent projects. • Challenge students with age-appropriate texts at higher reading levels. • Allow for the development and application of productive thinking skills to enable students to re-conceptualize existing knowledge and/or generate new knowledge. • Provide for the development of self-understanding of one's relationships with people, societal institutions, nature and culture.

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• Allow students to utilize online audio books, when appropriate. • Allow for collaboration through strategically selected groups. • Utilize assistive technology as appropriate. • Utilize graphic organizers. • Provide and model sentence frames/sentence starters. • Utilize manipulatives as necessary. • Provide breaks to allow for refocusing as necessary.	• Provide and model sentence frames to help students participate in discussion. • Provide word banks to help students write. • Translate printed communications in native language for parents. • Hold conferences with translator present.	- challenges. • Utilize strategic grouping with a positive academic role model. • Utilize graphic organizers.	
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Quinton Township School District
Math
Grade 7

Marking Period:	2	Unit Title:	Topic 3: Analyze and Solve Percent Problems	Pacing:	20 Days
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Unit Summary: Topic 3 focuses on using the percent proportion and percent equation to find parts, wholes, and percents. Students will use percents in financial situations involving percents of increase, percentages of decrease, percent of discounts to find prices of items, percent of markups to find selling prices of items and the simple interest formula.

Objectives:

- Understand that equivalent rates can be used to find percentages.
- Analyze percentages of numbers in a real world context.
- Construct a percent proportion.
- Use a percent proportion to find an unknown part, whole, or percent.
- Understand the relationship between proportional reasoning and percent.
- Interpret the results of a percent equation in a real-life scenario.
- Solve real-world problems involving percent change and percent error.
- Understand the percent equation and the different ways it can be used.
- Use mathematical modeling to represent a problem situation and to propose a solution.
- Test and verify the appropriateness of their mathematical models.
- Understand and calculate markups and markdowns.
- Relate percent change to percent markup and markdown.
- Identify the parts of interest problems and how the values are related.
- Understand what simple interest is and how it is calculated.

Essential Questions:

- How do percentages show the relationship between quantities?
- How does proportional reasoning relate to percents?
- How are percent problems related to proportional reasoning?
- How is finding percent error similar to finding percent change?
- How are the concepts of percent markup and percent markdown related to the percent equation?
- How does simple interest show proportional reasoning and relate to the percent equation?

New Jersey Student Learning Standards**Mathematics Learning Targets:** 7.RP.A.2c, 7.RP.A.3**Mathematics Practices:** MP.2, MP.7**Interdisciplinary Connections:** RI.TS.7.4, SL.PE.7.1**Career Readiness, Life Literacies, and Key Skills:** 9.4.8.GCA.2, 9.4.8.CI.1, 9.4.8.CT.1, 9.1.8.CDM.1, 9.1.8.CDM.2, 9.1.8.EG.3, 9.1.8.FI.4**Computer Science and Design Thinking:** 9.4.8.TL.2, 9.4.8.TL.3, 8.1.8.DA.1

Overview of Activities	Teacher's Guide/ Resources	Core Instructional Materials	Technology Infusion
3.1 - Analyze Percents of Numbers 3.2 - Connect Percent and Proportion	<i>enVision</i> Mathematics *Daily Review *Reteach to Build	Student Textbook Additional Practice Workbook	• Smart Board Applications • Google Applications • Interactive student

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3.3 - Represent and Use the Percent Equation 3.4 - Solve Percent Change and Percent Error Problems 3.5 - Solve Markup and Markdown Problems 3.6 - Solve Simple Interest Problems	Understanding *Build Mathematical Literacy *Enrichment * <i>enVision</i> Stem Activity *Problem Solving Leveled Reading Mat *Problem-Solving Reading Activity *Digital Math Tools Activities *Language Support Handguide *Listen and Look For *Home-School Connection	Notebook Pen/Pencil Index Cards paper colored markers	edition • Today's Challenge • Adaptive Practice • Desmos • IXL
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Assessments	
Formative Assessments • Topic Performance Task • Oral questioning • Using questioning strategies in TE • Reteach for Understanding • Classwork & Basic Skill Practice • Corrections & Reflections • Kahoot! • Quizizz • Desmos • Rubric-for projects	Summative Assessments • Topic 3 Performance Task/Assessment • Lesson Quizzes Suggested skills to be assessed: • Find Percent of a Number • Determine the percent, the part, or the whole • Percent of Change • Percent Error • Find markups and markdowns • Simple Interest

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• Self-reflection • Adaptive practice- on-line Savvas resources • Exit Slip • HW	
Benchmark Assessments • District-assigned Benchmark Assessments (e.g. LinkIt, literacy screeners, content-specific benchmarks)	Alternative Assessments • Alternative Choice Projects • Oral Assessments

Differentiation			
Special Education	MLL	At Risk	Gifted and Talented
• Modify and accommodate as listed in student IEP or 504 plan. • Utilize wait time effectively. • Communicate clear, concise directions and repeat, reword, modify as necessary. • Use visual aids during lessons and small-group time. • Utilize open-ended questioning techniques. • Utilize extended time and/or reduce number of items given for homework, quizzes, and tests. • Vary formative assessment styles to drive next point of instruction. • Create modified assessments. • Allow students to utilize online audio books, when appropriate. • Allow for collaboration through strategically selected groups. • Utilize assistive technology as appropriate. • Utilize graphic organizers. • Provide and model sentence	• Basic Skills Instruction • Speech/Language Therapy • Rosetta Stone • Provide English/Native Language Dictionary for use. • Place with native-language-speaking teacher/paraprofessional as available. • Use target words and cognates to understand texts. • Remind students to underline passages and list words they don't understand. • Learn/Utilize/Display some words in the students' native language. • Provide and model sentence frames to help students participate in discussion. • Provide word banks to help students write. • Translate printed communications in native language for parents.	• Basic Skills Instruction • Provide after-school tutoring services. • Hold fall and spring parent conferences. • Make modifications to instructional plans based on I and RS Plan. • Utilize wait time effectively. • Develop a record system to encourage good behavior and completion of work. • Utilize scaffolding to support instruction. • Provide counseling if necessary to help students cope with challenges. • Utilize strategic grouping with a positive academic role model. • Utilize graphic organizers.	• Promote self-initiated and self-directed learning for growth through independent projects. • Challenge students with age-appropriate texts at higher reading levels. • Allow for the development and application of productive thinking skills to enable students to re-conceptualize existing knowledge and/or generate new knowledge. • Provide for the development of self-understanding of one's relationships with people, societal institutions, nature and culture.

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frames/sentence starters. - Utilize manipulatives as necessary. - Provide breaks to allow for refocusing as necessary.	Hold conferences with translator present.		
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Quinton Township School District
Math
Grade 7

Marking Period:	2	Unit Title:	Topic 4: Generate Equivalent Expressions	Pacing:	25 days
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Unit Summary: In Topic 4, students will use properties of operations to generate equivalent expressions. They also solve real-life and mathematical problems using numerical and algebraic expressions.

Objectives:

- Understand how variables are used to represent unknown values in problems.
- Recognize when two expressions are equivalent.
- Use properties of operations to write equivalent expressions.
- Combine like integer and rational terms.
- Use the Distributive Property to expand expressions.
- Understanding expanding an expression is the reverse of factoring.
- Identify the GCF of algebraic terms in expressions.
- Use mathematical modeling to represent a problem situation and to propose a solution.
- Test and verify the appropriateness of their mathematical models.
- Explain why the results from their mathematical models may not align exactly to the problem situation.
- Use properties of operations to add expressions.
- Model addition of expressions in real-life applications.
- Use properties of operations to subtract expressions.
- Model subtraction of expressions in real-life applications.
- Write equivalent expressions to show how quantities are related in real-life applications.

Essential Questions:

- How can algebraic expressions be used to represent and solve problems?
- What are equivalent expressions?
- How are properties of operations used to simplify expressions?
- How does the value of an expression change when it is expanded?
- How does the distributive property relate to factoring expressions?
- How can properties of operations be used to add expressions?
- How can properties of operations be used to subtract expressions?
- How can writing equivalent expressions show how quantities are related?

New Jersey Student Learning Standards**Mathematics Learning Targets:** 7.EE.A.1, 7.EE.A.2, 7.EE.B.3, 7.EE.B.4**Mathematics Practices:** MP.2, MP.7**Interdisciplinary Connections:** RI.TS.7.4, SL.PE.7.1**Career Readiness, Life Literacies, and Key Skills:** 9.4.8.GCA.2, 9.4.8.CI.1, 9.4.8.CT.1**Computer Science and Design Thinking:** 9.4.8.TL.2, 9.4.8.TL.3, 8.1.8.DA.1

Overview of Activities	Teacher's Guide/ Resources	Core Instructional Materials	Technology Infusion
4.1 - Write and Evaluate Algebraic Expressions	<i>enVision</i> Mathematics *Daily Review	Student Textbook	• Smart Board Applications

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4.2 - Generate Equivalent Expressions 4.3 - Simplify Expressions 4.4 - Expand Expressions 4.5 - Factor Expressions 4.6 - Add Expressions 4.7 - Subtract Expressions 4.8 - Analyze Equivalent Expressions	*Reteach to Build Understanding *Build Mathematical Literacy *Enrichment * <i>enVision</i> Stem Activity *Problem Solving Levelled Reading Mat *Problem-Solving Reading Activity *Digital Math Tools Activities *Language Support Handguide *Listen and Look For *Home-School Connection	Additional Practice Workbook Notebook Pen/Pencil Index Cards	● Google Applications ● Interactive student edition ● Today's Challenge ● Adaptive Practice ● Desmos ● IXL
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Assessments	
Formative Assessments ● Topic Performance Task ● Oral questioning ● Using questioning strategies in TE ● Reteach for Understanding ● Classwork & Basic Skill Practice ● Corrections & Reflections ● Kahoot!	Summative Assessments ● Topic 4 Performance Task/Assessment ● Lesson Quizzes Suggested skills to be assessed: ● Recognize Equivalent Expressions ● Simplify Expressions ● Factor Expressions

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• Quizizz • Desmos • Rubric-for projects • Self-reflection • Adaptive practice- on-line Savvas resources • Exit Slip • HW	• Add and Subtract Expressions
Benchmark Assessments • District-assigned Benchmark Assessments (e.g. LinkIt, literacy screeners, content-specific benchmarks)	Alternative Assessments • Alternative Choice Projects • Oral Assessments

Differentiation			
Special Education	MLL	At Risk	Gifted and Talented
• Modify and accommodate as listed in student IEP or 504 plan. • Utilize wait time effectively. • Communicate clear, concise directions and repeat, reword, modify as necessary. • Use visual aids during lessons and small-group time. • Utilize open-ended questioning techniques. • Utilize extended time and/or reduce number of items given for homework, quizzes, and tests. • Vary formative assessment styles to drive next point of instruction. • Create modified assessments. • Allow students to utilize online audio books, when appropriate.	• Basic Skills Instruction • Speech/Language Therapy • Rosetta Stone • Provide English/Native Language Dictionary for use. • Place with native-language-speaking teacher/paraprofessional as available. • Use target words and cognates to understand texts. • Remind students to underline passages and list words they don't understand. • Learn/Utilize/Display some words in the students' native language. • Provide and model sentence frames to help students participate in discussion.	• Basic Skills Instruction • Provide after-school tutoring services. • Hold fall and spring parent conferences. • Make modifications to instructional plans based on I and RS Plan. • Utilize wait time effectively. • Develop a record system to encourage good behavior and completion of work. • Utilize scaffolding to support instruction. • Provide counseling if necessary to help students cope with challenges. • Utilize strategic grouping with a positive academic role model.	• Promote self-initiated and self-directed learning for growth through independent projects. • Challenge students with age-appropriate texts at higher reading levels. • Allow for the development and application of productive thinking skills to enable students to re-conceptualize existing knowledge and/or generate new knowledge. • Provide for the development of self-understanding of one's relationships with people, societal institutions, nature and culture.

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• Allow for collaboration through strategically selected groups. • Utilize assistive technology as appropriate. • Utilize graphic organizers. • Provide and model sentence frames/sentence starters. • Utilize manipulatives as necessary. • Provide breaks to allow for refocusing as necessary.	• Provide word banks to help students write. • Translate printed communications in native language for parents. • Hold conferences with translator present.	• Utilize graphic organizers.	
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Quinton Township School District
Math
Grade 7

Marking Period:	3	Unit Title:	Topic 5: Solve Problems using Equations and Inequalities	Pacing:	20 Days
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Unit Summary: In Topic 5, students will write and solve two-step equations. They will also use properties of operations to simplify inequalities, solve real-life and mathematical problems using inequalities, and create graphs associated with inequalities and use the appropriate symbols.

Objectives:

- Analyze word problems to write two-step equations.
- Understand the relationship between the terms of the equation and the values they represent.
- Use models to solve two-step equations.
- Compare algebraic and arithmetic solutions.
- Solve equations using the Distributive Property.
- Graph the solution of inequalities on a number line.
- Solve inequalities using Addition or Subtraction Properties of Inequality.
- Write inequalities and solve them using Multiplication and Division Properties of Inequality.
- Graph the solutions of an inequality on a number line.
- Use mathematical modeling to represent a problem situation and to propose a solution.
- Test and verify the appropriateness of their mathematical models.
- Write and solve a two-step inequality to solve a problem.
- Solve an inequality by multiplying or dividing by a negative rational number.

- Explore the relationship between two-step inequalities and multi-step inequalities.
- Apply the Distributive Property to simplify and solve multi-step inequalities.

Essential Questions:

- How does an equation show the relationship between variables and other quantities in a situation?
- How is solving a two-step equation similar to solving a one-step equation?
- How does the Distributive Property help you solve an equation?
- How is solving inequalities with addition and subtraction similar to and different from solving equations with addition and subtraction?
- How is solving inequalities with multiplication and division similar to and different from solving equations with multiplication and division?
- How is solving a two-step inequality similar to and different from solving a two-step equation?
- How is solving a multi-step inequality similar to and different from solving a multi-step equation?

New Jersey Student Learning Standards

Mathematics Learning Targets: 7.EE.B.3, 7.EE.B.4a, 7.EE.B.4b

Mathematics Practices: MP.2, MP.3

Interdisciplinary Connections: RI.TS.7.4, SL.PE.7.1

Career Readiness, Life Literacies, and Key Skills: 9.4.8.GCA.2, 9.4.8.CI.1, 9.4.8.CT.1

Computer Science and Design Thinking: 9.4.8.TL.2, 9.4.8.TL.3, 8.1.8.DA.1, 9.4.8.IML.5

Overview of Activities	Teacher's Guide/ Resources	Core Instructional Materials	Technology Infusion
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5.1 - Write Two-Step Equations 5.2 - Solve Two-Step Equations 5.3 - Solve Equations Using the Distributive Property 5.4 - Solve Inequalities Using Addition or Subtraction 5.5 - Solve Inequalities Using Multiplication or Division 5.6 - Solve Two-Step Inequalities 5.7 - Solve Multi-Step Inequalities	<i>enVision</i> Mathematics *Daily Review *Reteach to Build Understanding *Build Mathematical Literacy *Enrichment * <i>enVision</i> Stem Activity *Problem Solving Levelled Reading Mat *Problem-Solving Reading Activity *Digital Math Tools Activities *Language Support Handguide *Listen and Look For *Home-School Connection	Student Textbook Additional Practice Workbook Notebook Pen/Pencil Index Cards	● Smart Board Applications ● Google Applications ● Interactive student edition ● Today's Challenge ● Adaptive Practice ● Desmos ● IXL
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Assessments	
Formative Assessments ● Topic Performance Task ● Oral questioning ● Using questioning strategies in TE ● Reteach for Understanding ● Classwork & Basic Skill Practice ● Corrections & Reflections ● Kahoot!	Summative Assessments ● Topic 5 Performance Task/Assessment ● Lesson Quizzes Suggested skills to be assessed: ● Write two-step equations ● Solve two-step equations ● Solve equations using the distributive property

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• Quizizz • Desmos • Rubric-for projects • Self-reflection • Adaptive practice- on-line Savvas resources • Exit Slip • HW	• Solve inequalities using addition or subtraction • Graph the solution of inequalities on a number line • Solve inequalities using multiplication and division • Write and solve a two-step inequality to solve a problem • Solve multi-step inequalities
Benchmark Assessments • District-assigned Benchmark Assessments (e.g. LinkIt, literacy screeners, content-specific benchmarks)	Alternative Assessments • Alternative Choice Projects • Oral Assessments

Differentiation			
Special Education	MLL	At Risk	Gifted and Talented
• Modify and accommodate as listed in student IEP or 504 plan. • Utilize wait time effectively. • Communicate clear, concise directions and repeat, reword, modify as necessary. • Use visual aids during lessons and small-group time. • Utilize open-ended questioning techniques. • Utilize extended time and/or reduce number of items given for homework, quizzes, and tests. • Vary formative assessment styles to drive next point of instruction. • Create modified assessments. • Allow students to utilize online audio books, when appropriate.	• Basic Skills Instruction • Speech/Language Therapy • Rosetta Stone • Provide English/Native Language Dictionary for use. • Place with native-language-speaking teacher/paraprofessional as available. • Use target words and cognates to understand texts. • Remind students to underline passages and list words they don't understand. • Learn/Utilize/Display some words in the students' native language. • Provide and model sentence frames to help students participate in discussion.	• Basic Skills Instruction • Provide after-school tutoring services. • Hold fall and spring parent conferences. • Make modifications to instructional plans based on I and RS Plan. • Utilize wait time effectively. • Develop a record system to encourage good behavior and completion of work. • Utilize scaffolding to support instruction. • Provide counseling if necessary to help students cope with challenges. • Utilize strategic grouping with a positive academic role model.	• Promote self-initiated and self-directed learning for growth through independent projects. • Challenge students with age-appropriate texts at higher reading levels. • Allow for the development and application of productive thinking skills to enable students to re-conceptualize existing knowledge and/or generate new knowledge. • Provide for the development of self-understanding of one's relationships with people, societal institutions, nature and culture.

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• Allow for collaboration through strategically selected groups. • Utilize assistive technology as appropriate. • Utilize graphic organizers. • Provide and model sentence frames/sentence starters. • Utilize manipulatives as necessary. • Provide breaks to allow for refocusing as necessary.	• Provide word banks to help students write. • Translate printed communications in native language for parents. • Hold conferences with translator present.	• Utilize graphic organizers.	
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Quinton Township School District
Math
Grade 7

Marking Period:	3	Unit Title:	Topic 6: Use Sampling to Draw Inferences About Populations	Pacing:	20 Days
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Unit Summary: Topic 6 focuses on methods of sampling populations and those that will be used to determine population size. Using the data collected by statistical questions, students determine and analyze measures of center and measures of variation.

Objectives:

- Distinguish between a population and a sample.
- Establish whether a sample is representative of a population.
- Generate random samples.
- Make qualitative inferences from a sample data set.
- Make quantitative inferences from a sample data set.
- Make estimates about a population based on a sample data set, and assess whether the inferences are valid.
- Use box plots to compare and make inferences about populations.
- Use the median and IQR of datasets to informally compare and make inferences about two populations.
- Use the mode, range, mean, and mean absolute deviation (MAD) to compare populations.
- Use mathematical modeling to represent a problem situation and to propose a solution.
- Test and verify the appropriateness of their math models.
- Explain why the results from their mathematical models may not align exactly to the problem situation.

Essential Questions:

- How can you determine a representative sample of a population?
- How can inferences be drawn about a population from data gathered from samples?
- How can data displays be used to compare populations?
- How can dot plots and statistical measures be used to compare populations?

New Jersey Student Learning Standards**Mathematics Learning Targets:** 7.SP.A.1, 7.SP.A.2, 7.SP.B.3, 7.SP.B.4, 7.RP.A.2c, 7.RP.A.3**Mathematics Practices:** MP.2, MP.4**Interdisciplinary Connections:** RI.TS.7.4, SL.PE.7.1**Career Readiness, Life Literacies, and Key Skills:** 9.4.8.GCA.2, 9.4.8.CI.1, 9.4.8.CT.1**Computer Science and Design Thinking:** 9.4.8.TL.2, 9.4.8.TL.3, 8.1.8.DA.1, 9.4.8.IML.5, 9.4.8.IML.4

Overview of Activities	Teacher's Guide/ Resources	Core Instructional Materials	Technology Infusion
6.1 - Populations and Samples 6.2 - Draw Inferences from Data 6.3 - Make Comparative Inferences About Populations 6.4 - Make More Comparative	<i>enVision</i> Mathematics *Daily Review *Reteach to Build Understanding *Build Mathematical Literacy	Student Textbook Additional Practice Workbook Notebook	• Smart Board Applications • Google Applications • Interactive student edition • Today's Challenge

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Inferences About Populations	*Enrichment *<i>enVision</i> Stem Activity *Problem Solving Levelled Reading Mat *Problem-Solving Reading Activity *Digital Math Tools Activities *Language Support Handguide *Listen and Look For *Home-School Connection	Pen/Pencil Index Cards	● Adaptive Practice ● Desmos ● IXL
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Assessments	
Formative Assessments ● Topic Performance Task ● Oral questioning ● Using questioning strategies in TE ● Reteach for Understanding ● Classwork & Basic Skill Practice ● Corrections & Reflections ● Kahoot! ● Quizizz ● Desmos ● Rubric-for projects ● Self-reflection ● Adaptive practice- on-line Savvas resources ● Exit Slip	Summative Assessments ● Topic 6 Performance Task/Assessment ● Lesson Quizzes Suggested skills to be assessed: ● Distinguish between a population and random sample ● Generate random samples ● Draw inferences from data ● Make comparative inferences about populations ● Use and make box plots to compare data. ● Find median and IQR ● Use mode, range, mean and MAD to compare populations

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• HW	
Benchmark Assessments • District-assigned Benchmark Assessments (e.g. LinkIt, literacy screeners, content-specific benchmarks)	Alternative Assessments • Alternative Choice Projects • Oral Assessments

Differentiation			
Special Education	MLL	At Risk	Gifted and Talented
• Modify and accommodate as listed in student IEP or 504 plan. • Utilize wait time effectively. • Communicate clear, concise directions and repeat, reword, modify as necessary. • Use visual aids during lessons and small-group time. • Utilize open-ended questioning techniques. • Utilize extended time and/or reduce number of items given for homework, quizzes, and tests. • Vary formative assessment styles to drive next point of instruction. • Create modified assessments. • Allow students to utilize online audio books, when appropriate. • Allow for collaboration through strategically selected groups. • Utilize assistive technology as appropriate. • Utilize graphic organizers. • Provide and model sentence frames/sentence starters. • Utilize manipulatives as	• Basic Skills Instruction • Speech/Language Therapy • Rosetta Stone • Provide English/Native Language Dictionary for use. • Place with native-language-speaking teacher/paraprofessional as available. • Use target words and cognates to understand texts. • Remind students to underline passages and list words they don't understand. • Learn/Utilize/Display some words in the students' native language. • Provide and model sentence frames to help students participate in discussion. • Provide word banks to help students write. • Translate printed communications in native language for parents. • Hold conferences with translator present.	• Basic Skills Instruction • Provide after-school tutoring services. • Hold fall and spring parent conferences. • Make modifications to instructional plans based on I and RS Plan. • Utilize wait time effectively. • Develop a record system to encourage good behavior and completion of work. • Utilize scaffolding to support instruction. • Provide counseling if necessary to help students cope with challenges. • Utilize strategic grouping with a positive academic role model. • Utilize graphic organizers.	• Promote self-initiated and self-directed learning for growth through independent projects. • Challenge students with age-appropriate texts at higher reading levels. • Allow for the development and application of productive thinking skills to enable students to re-conceptualize existing knowledge and/or generate new knowledge. • Provide for the development of self-understanding of one's relationships with people, societal institutions, nature and culture.

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necessary. • Provide breaks to allow for refocusing as necessary.			
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Quinton Township School District
Math
Grade 7

Marking Period:	4	Unit Title:	Topic 7: Probability	Pacing:	28 Days
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Unit Summary: In Topic 7, students investigate probability and statistics. Students identify the difference between probability and likelihood. Students complete activities related to experimental and theoretical probabilities. Tree diagrams, tables, and formulas will create variable methods for students to identify numbers of possible outcomes. Probabilities of compound events as well as identifying independent and dependent events will be discussed.

Objectives:

- Use probability to describe the likelihood that an event will occur.
- Relate probability to mathematical fairness.
- Understand theoretical probability and how it can be used.
- Use theoretical probability to predict an outcome.
- Compare theoretical and experimental probabilities.
- Use experimental probability to make predictions.
- Explain the differences between theoretical and experimental probability.
- Develop a probability model.
- Use a probability model to evaluate a situation.
- Use a probability model to make an estimate.
- Use mathematical modeling to represent a problem situation and to propose a solution.
- Test and verify the appropriateness of the math models.
- Explain why the results from their mathematical models may not align exactly to the problem situation.
- Use a tree diagram, a table, or an organized list to represent the sample space for a compound event
- Organize information about a compound event on a table, a tree diagram, or an organized list.

- Find the probability of a compound event.
- Use different tools to simulate a compound event.
- Model a real-world situation involving a compound event and predict its outcome using a simulation.

Essential Questions:

- What is probability?
- How can the probability of an event help make predictions?
- How is experimental probability similar to and different from theoretical probability ?
- How can a model be used to find the probability of an event?
- How can all the possible outcomes, or sample space, of a compound event be represented?
- How can a model help find the probability of a compound event?
- How can you use simulations to determine the probability of events?

New Jersey Student Learning Standards

Mathematics Learning Targets: 7.SP.C.5, 7.SP.C.6, 7.SP.C.7, 7.SP.C.7a, 7.SP.C.7b, 7.SP.C.8a, 7.SP.C.8b, 7.SP.C.8c, 7.EE.B.3

Mathematics Practices: MP.1, MP.7

Interdisciplinary Connections: RI.TS.7.4, SL.PE.7.1

Career Readiness, Life Literacies, and Key Skills: 9.4.8.GCA.2, 9.4.8.CI.1, 9.4.8.CT.1

Computer Science and Design Thinking: 9.4.8.TL.2, 9.4.8.TL.3, 8.1.8.DA.1, 9.4.8.IML.5, 9.4.8.IML.4

Overview of Activities	Teacher's Guide/ Resources	Core Instructional Materials	Technology Infusion
7.1 - Understand Likelihood and Probability 7.2 - Understand Theoretical Probability 7.3 - Understand Experimental Probability 7.4 - Use Probability Models 7.5 - Determine Outcomes of Compound Events 7.6 - Find Probabilities of Compound Events 7.7 - Simulate Compound Events	<i>enVision</i> Mathematics *Daily Review *Reteach to Build Understanding *Build Mathematical Literacy *Enrichment * <i>enVision</i> Stem Activity *Problem Solving Leveled Reading Mat *Problem-Solving Reading Activity *Digital Math Tools Activities *Language Support Handguide *Listen and Look For *Home-School Connection	Student Textbook Additional Practice Workbook Notebook Pen/Pencil Index Cards	● Smart Board Applications ● Google Applications ● Interactive student edition ● Today's Challenge ● Adaptive Practice ● Desmos ● IXL

Assessments	
Formative Assessments ● Topic Performance Task ● Oral questioning ● Using questioning strategies in TE ● Reteach for Understanding ● Classwork & Basic Skill Practice	Summative Assessments ● Topic 7 Performance Task/Assessment ● Lesson Quizzes Suggested skills to be assessed: ● Use probability to describe likelihood

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• Corrections & Reflections • Kahoot! • Quizizz • Desmos • Rubric-for projects • Self-reflection • Adaptive practice- on-line Savvas resources • Exit Slip • HW	• Understand theoretical probability • Compare theoretical and experimental probability • Use probability models • Determine outcomes of compound events • Find probabilities of compound events • Simulate compound events
Benchmark Assessments • District-assigned Benchmark Assessments (e.g. LinkIt, literacy screeners, content-specific benchmarks)	Alternative Assessments • Alternative Choice Projects • Oral Assessments

Differentiation			
Special Education	MLL	At Risk	Gifted and Talented
• Modify and accommodate as listed in student IEP or 504 plan. • Utilize wait time effectively. • Communicate clear, concise directions and repeat, reword, modify as necessary. • Use visual aids during lessons and small-group time. • Utilize open-ended questioning techniques. • Utilize extended time and/or reduce number of items given for homework, quizzes, and tests. • Vary formative assessment styles to drive next point of instruction. • Create modified assessments.	• Basic Skills Instruction • Speech/Language Therapy • Rosetta Stone • Provide English/Native Language Dictionary for use. • Place with native-language-speaking teacher/paraprofessional as available. • Use target words and cognates to understand texts. • Remind students to underline passages and list words they don't understand. • Learn/Utilize/Display some words in the students' native language.	• Basic Skills Instruction • Provide after-school tutoring services. • Hold fall and spring parent conferences. • Make modifications to instructional plans based on I and RS Plan. • Utilize wait time effectively. • Develop a record system to encourage good behavior and completion of work. • Utilize scaffolding to support instruction. • Provide counseling if necessary to help students cope with	• Promote self-initiated and self-directed learning for growth through independent projects. • Challenge students with age-appropriate texts at higher reading levels. • Allow for the development and application of productive thinking skills to enable students to re-conceptualize existing knowledge and/or generate new knowledge. • Provide for the development of self-understanding of one's relationships with people, societal institutions, nature and culture.

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• Allow students to utilize online audio books, when appropriate. • Allow for collaboration through strategically selected groups. • Utilize assistive technology as appropriate. • Utilize graphic organizers. • Provide and model sentence frames/sentence starters. • Utilize manipulatives as necessary. • Provide breaks to allow for refocusing as necessary.	• Provide and model sentence frames to help students participate in discussion. • Provide word banks to help students write. • Translate printed communications in native language for parents. • Hold conferences with translator present.	• challenges. • Utilize strategic grouping with a positive academic role model. • Utilize graphic organizers.	
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Quinton Township School District
Math
Grade 7

Marking Period:	4	Unit Title:	Topic 8: Solve Problems Involving Geometry	Pacing:	22 Days
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Unit Summary: In Topic 8, students will construct angles and two-dimensional figures. Students will identify types of angles and triangles. Students will classify types of quadrilaterals. Area will be calculated for circles and composite figures. The distance around circles and composite figures will be calculated. Students will also work with figures in 3 dimensions. Formulas to find the surface area of prisms, pyramids, and cylinders will be discussed and explored. Formulas to find the volume of prisms and pyramids will be discussed and explored. Students will identify cross sections of three-dimensional solids.

Objectives:

- Use a scale drawing as a representation of actual lengths and area.
- Sketch quadrilaterals with given conditions.
- Name and classify quadrilaterals according to their properties.
- Construct triangles with given conditions.
- Conclude whether or not a triangle is formed and what type of triangle it is.
- Calculate the measures of angles by using angle relationships.
- Calculate the circumference, radius, or diameter of a circle.
- Recognize the relationship between the circumference and the diameter of a circle and pi.
- Find the area of a circle.
- Use the area to find the radius and diameter.
- Solve problems involving the area of a circle.
- Use mathematical modeling to represent a problem situation and to propose a solution.

- Test and verify the appropriateness of their mathematical models.
- Describe cross sections of right rectangular prisms and pyramids.
- Solve problems involving cross sections.
- Find the surface area of two-dimensional composite figures.
- Find the surface area of three-dimensional composite shapes.
- Calculate the volume of various three-dimensional figures.
- Solve problems involving the volume of three-dimensional figures.

Essential Questions:

- How do scale drawings and actual measurements represent proportional relationships?
- How can a shape that meets its given conditions be drawn?
- How can you determine when it is possible to draw a triangle given certain conditions?
- How are angles formed by intersecting lines related?
- How is the circumference of a circle related to the length of its diameter?
- How can the area formula for a circle be used to solve problems?
- How do the faces of a three-dimensional figure determine the two-dimensional shapes created by slicing the figure?
- How is finding the area of composite two-dimensional figures similar to finding the surface areas of three-dimensional figures?
- How does the formula for volume of a prism help you understand what the volume of a prism means?

New Jersey Student Learning Standards

Mathematics Learning Targets: 7.G.A.1, 7.G.A.2, 7.G.A.3, 7.G.B.4, 7.G.B.5, 7.G.B.6, 7.NS.A.3, 7.EE.B.3, 7.EE.B.4a

Mathematics Practices: MP.1, MP.2, MP.7, MP.8

Interdisciplinary Connections: RI.TS.7.4, SL.PE.7.1

Career Readiness, Life Literacies, and Key Skills: 9.4.8.GCA.2, 9.4.8.CI.1, 9.4.8.CT.1

Computer Science and Design Thinking: 9.4.8.TL.2, 9.4.8.TL.3, 8.1.8.DA.1, 9.4.8.IML.3

Overview of Activities	Teacher's Guide/ Resources	Core Instructional Materials	Technology Infusion
8.1 - Solve Problems Involving Scale Drawings 8.2 - Draw Geometric Figures 8.3 - Draw Triangles with Given Conditions 8.4 - Solve Problems Using Angle Relationships 8.5 - Solve Problems Involving Circumference of a Circle 8.6 - Solve Problems Involving Area of a Circle 8.7 - Describe Cross Section 8.8 - Solve Problems Involving Surface Area 8.9 - Solve Problems Involving Volume	<i>enVision</i> Mathematics *Daily Review *Reteach to Build Understanding *Build Mathematical Literacy *Enrichment * <i>enVision</i> Stem Activity *Problem Solving Leveled-Reading Mat *Problem-Solving Reading Activity *Digital Math Tools Activities *Language Support Handguide *Listen and Look For *Home-School Connection	Student Textbook Additional Practice Workbook Notebook Pen/Pencil Index Cards	● Smart Board Applications ● Google Applications ● Interactive student edition ● Today's Challenge ● Adaptive Practice ● Desmos ● IXL

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Assessments	
Formative Assessments • Topic Performance Task • Oral questioning • Using questioning strategies in TE • Reteach for Understanding • Classwork & Basic Skill Practice • Corrections & Reflections • Kahoot! • Quizizz • Desmos • Rubric-for projects • Self-reflection • Adaptive practice- on-line Savvas resources • Exit Slip • HW	Summative Assessments • Topic 8 Performance Task/Assessment • Lesson Quizzes Suggested skills to be assessed: • Use scale drawings as a representation of actual lengths and area. • Sketch quadrilaterals • Name and classify quadrilaterals • Construct Triangles • Decide if a triangle is formed • Classify Triangles • Calculate measures of angles • Calculate the circumference, radius, and diameter of a circle • Find area and circumference of a circle • Solve problems involving cross sections • Find surface area • Find volume of 3-d figures
Benchmark Assessments • District-assigned Benchmark Assessments (e.g. LinkIt, literacy screeners, content-specific benchmarks)	Alternative Assessments • Alternative Choice Projects • Oral Assessments

Differentiation			
Special Education	MLL	At Risk	Gifted and Talented

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• Modify and accommodate as listed in student IEP or 504 plan. • Utilize wait time effectively. • Communicate clear, concise directions and repeat, reword, modify as necessary. • Use visual aids during lessons and small-group time. • Utilize open-ended questioning techniques. • Utilize extended time and/or reduce number of items given for homework, quizzes, and tests. • Vary formative assessment styles to drive next point of instruction. • Create modified assessments. • Allow students to utilize online audio books, when appropriate. • Allow for collaboration through strategically selected groups. • Utilize assistive technology as appropriate. • Utilize graphic organizers. • Provide and model sentence frames/sentence starters. • Utilize manipulatives as necessary. • Provide breaks to allow for refocusing as necessary.	• Basic Skills Instruction • Speech/Language Therapy • Rosetta Stone • Provide English/Native Language Dictionary for use. • Place with native-language-speaking teacher/paraprofessional as available. • Use target words and cognates to understand texts. • Remind students to underline passages and list words they don't understand. • Learn/Utilize/Display some words in the students' native language. • Provide and model sentence frames to help students participate in discussion. • Provide word banks to help students write. • Translate printed communications in native language for parents. • Hold conferences with translator present.	• Basic Skills Instruction • Provide after-school tutoring services. • Hold fall and spring parent conferences. • Make modifications to instructional plans based on I and RS Plan. • Utilize wait time effectively. • Develop a record system to encourage good behavior and completion of work. • Utilize scaffolding to support instruction. • Provide counseling if necessary to help students cope with challenges. • Utilize strategic grouping with a positive academic role model. • Utilize graphic organizers.	• Promote self-initiated and self-directed learning for growth through independent projects. • Challenge students with age-appropriate texts at higher reading levels. • Allow for the development and application of productive thinking skills to enable students to re-conceptualize existing knowledge and/or generate new knowledge. • Provide for the development of self-understanding of one's relationships with people, societal institutions, nature and culture.
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