



CAMP HILL SCHOOL DISTRICT

Third Grade: **Math Standards for Numbers and Operations**

DOMAIN (MATH CONTENT):

Number and Operations in Base Ten

STANDARDS FOR MATHEMATICAL PRACTICE:

Make sense of problems and persevere in solving them.
 Use appropriate tools strategically.
 Reason abstractly and quantitatively.
 Attend to precision.

Construct viable arguments and critique the reasoning of others.
 Look for and make use of structure.
 Model with mathematics.
 Look for and make sense of regularity in repeated reasoning.

Essential Questions	CC Focus for Instruction	Planned Learning Experiences/ Instructional Strategies	Assessments	Resources
<p>How can I show the value of a number? Why is it important to understand the value of a number?</p>	<p>1. Apply place value understanding and properties of operations to perform multi-digit arithmetic.</p>	<p><u>Direct Instruction-</u> Introducing Modeling Showing Vocabulary Repeating Technology <u>Guided practice-</u> Small group with teacher Whole class practice Student Leaders Quick Practice Daily Routine Secret Code Cards <u>Collaborative Practice-</u> Workbooks Math Talk Pair-Share Partner work <u>Independent Practice-</u> Workbooks Technology Tickets Out the Door Homework</p>	<p>Formal- quizzes and tests/or Performance Assessment, PSSA Informal-ticket out the door, think-pair-share, math talk, activity book, teacher observation, math journal</p> <p>PDE Assessment Anchor M03.A-T.1</p>	<p>Show Me- (I-Pad), Whiteboards, math journals, activity books, homework books, assessment book, Teacher Manuals, Student Toolkits, Smartboard, Brainpop, Supplemental Resources</p>



CAMP HILL SCHOOL DISTRICT
Third Grade: Math Standards for Numbers and Operations

DOMAIN (MATH CONTENT):

Number and Operations-Fractions

STANDARDS FOR MATHEMATICAL PRACTICE:

Make sense of problems and persevere in solving them.

Construct viable arguments and critique the reasoning of others.

Use appropriate tools strategically.

Look for and make use of structure.

Reason abstractly and quantitatively.

Model with mathematics.

Attend to precision.

Look for and express regularity in repeated reasoning.

Essential Questions	CC Focus for Instruction	Planned Learning Experiences/ Instructional Strategies	Assessments	Resources
<p>How are fractions similar and different to whole numbers?</p>	<p>1. Explore and develop an understanding of fractions as numbers.</p>	<p><u>Direct Instruction-</u> Introducing Modeling Showing Vocabulary Repeating Technology <u>Guided practice-</u> Small group with teacher Whole class practice Student Leaders Quick Practice Daily Routine Math Tool Kit <u>Collaborative Practice-</u> Workbooks Math Talk Pair-Share Partner work <u>Independent Practice-</u> Workbooks Technology Tickets Out the Door Homework</p>	<p>Formal- quizzes and tests/or Performance Assessment, PSSA</p> <p>Informal- ticket out the door, think-pair-share, math talk, activity book, teacher observation, math journal</p> <p>PDE Assessment Anchor M03.A-F.1</p>	<p>Show Me- (I-Pad), Whiteboards, math journals, activity books, homework books, assessment book, Teacher Manuals, Student Toolkits, Smartboard, Megamath, Brainpop, Supplemental Resources</p>



CAMP HILL SCHOOL DISTRICT

Third Grade: **Math Standards for Algebraic Concepts**

DOMAIN (MATH CONTENT):

Operations and Algebraic Thinking

STANDARDS FOR MATHEMATICAL PRACTICE:

Make sense of problems and persevere in solving them.
 Use appropriate tools strategically.
 Reason abstractly and quantitatively.
 Attend to precision.

Construct viable arguments and critique the reasoning of others.
 Look for and make use of structure.
 Model with mathematics.
 Look for and make sense of regularity in repeated reasoning.

Essential Questions	CC Focus for Instruction	Planned Learning Experiences/ Instructional Strategies	Assessments	Resources
How can I show and solve problems involving multiplication and division?	1. Represent and solve problems involving multiplication and division.	<u>Direct Instruction-</u> Introducing Modeling Showing Vocabulary Repeating Technology <u>Guided practice-</u> Small group with teacher Whole class practice Student Leaders Quick Practice Daily Routine Math Tool Kit <u>Collaborative Practice-</u> Workbooks Math Talk Pair-Share Partner work <u>Independent Practice-</u> Multiplication Folder Workbooks Technology Tickets Out the Door Homework	Formal- Quizzes and tests/or Performance Assessments, PSSA Informal- ticket out the door, think-pair-share, math talk, activity book, teacher observation, math journal, *PDE Assessment Anchor M03.B-O.1	Show Me- (I-Pad), Whiteboards, math journals, activity books, homework books, assessment book, Teacher Manuals, Student Toolkits, Smartboard, Brainpop, Supplemental Resources
How are multiplication and division related?	2. Understand properties of multiplication and the relationship between multiplication and division. (Relate division to a missing number multiplication equation)		Formal- Quizzes and tests, PSSA Informal- ticket out the door, think-pair-share, math talk, activity book, teacher observation, math journal, *PDE Assessment Anchor M03.B-O.1	
How can I show mastery of multiplication and division facts?			Formal- Quizzes and tests, Performance Assessment, PSSA Informal- ticket out the door, think-pair-share, math talk, activity book, teacher observation, math journal, multiplication folder *PDE Assessment Anchor M03.B-O.1	
How can I identify and use patterns of numbers to help solve equations? What are the key words to help decide what operation to use? What math tools can be used to represent the equation?	3. Demonstrate multiplication and division fluency.		Formal- Quizzes and tests/or Performance Assessment, PSSA Informal- ticket out the door, think-pair-share, math talk, activity book, teacher observation, math journal *PDE Assessment Anchor M03.B-O.1	Show Me- (I-Pad), Whiteboards, math journals, activity books, homework books, assessment book, Teacher Manuals, Student Toolkits, Smartboard, Brainpop, Supplemental Resources
	4. Solve problems involving the four operations, and identify and explain patterns in arithmetic.			



CAMP HILL SCHOOL DISTRICT
Third Grade: Math Standards for Geometry

DOMAIN (MATH CONTENT):

Geometry

STANDARDS FOR MATHEMATICAL PRACTICE:

Make sense of problems and persevere in solving them.
 Use appropriate tools strategically.
 Reason abstractly and quantitatively.
 Attend to precision.

Construct viable arguments and critique the reasoning of others.
 Look for and make use of structure.
 Model with mathematics.
 Look for and make sense of regularity in repeated reasoning.

Essential Questions	CC Focus for Instruction	Planned Learning Experiences/ Instructional Strategies	Assessments	Resources
<p>How can I identify, describe, and classify two and three-dimensional shapes?</p> <p>How do I divide a shape into equal parts? How do I write a fraction for each equal part?</p>	<p>1. Identify, compare, and classify shapes and their attributes.</p> <p>2. Use the understanding of fractions to partition shapes into parts with equal areas and express the area of each part as a unit fraction of the whole.</p>	<p><u>Direct Instruction-</u> Introducing Modeling Showing Vocabulary Repeating Technology <u>Guided practice-</u> Small group with teacher Whole class practice Student Leaders Quick Practice Daily Routine Math Tool Kit <u>Collaborative Practice-</u> Workbooks Math Talk Pair-Share Partner work <u>Independent Practice-</u> Workbooks Technology Tickets Out the Door Homework</p>	<p>Formal- Quizzes and tests/or Performance Assessment, PSSA</p> <p>Informal- ticket out the door, think-pair-share, math talk, activity book, teacher observation, math journal, PSSA *PDE Assessment Anchor M03.C-G.1</p> <p>Formal-Quizzes and tests, PSSA Informal- ticket out the door, think-pair-share, math talk, activity book, teacher observation, math journal *PDE Assessment Anchor M03.A-F.1</p>	<p>Show Me- (I-Pad), Whiteboards, math journals, activity books, homework books, assessment book, Teacher Manuals, Student Toolkits, Smartboard, Brainpop, Supplemental Resources</p> <p>Show Me- (I-Pad), Whiteboards, math journals, activity books, homework books, assessment book, Teacher Manuals, Student Toolkits, Smartboard, Brainpop, Supplemental Resources</p>



CAMP HILL SCHOOL DISTRICT

Third Grade: **Math Standards for Measurement, Data and Probability**

DOMAIN (MATH CONTENT):

Measurement and Data

STANDARDS FOR MATHEMATICAL PRACTICE:

Make sense of problems and persevere in solving them.

Use appropriate tools strategically.

Reason abstractly and quantitatively.

Attend to precision.

Construct viable arguments and critique the reasoning of others.

Look for and make use of structure.

Model with mathematics.

Look for and make sense of regularity in repeated reasoning.

Essential Questions	CC Focus for Instruction	Planned Learning Experiences/ Instructional Strategies	Assessments	Resources
How can I measure and estimate to figure out temperature, liquid volume, mass or length? How can I solve problems using measurement tools?	1. Solve problems involving measurement and estimation of temperature, liquid volume, mass or length.	<u>Direct Instruction-</u> Introducing Modeling Showing Vocabulary Repeating Technology <u>Guided practice-</u> Small group with teacher Whole class practice Student Leaders Quick Practice Daily Routine Math Tool Kit <u>Collaborative Practice-</u> Workbooks Math Talk Pair-Share Partner work	Formal- Quizzes and tests, PSSA Informal- ticket out the door, think-pair-share, math talk, activity book, teacher observation, math journal *PDE Assessment Anchor M03.D-M.1	Show Me- (I-Pad), Whiteboards, math journals, activity books, homework books, assessment book, Teacher Manuals, Student Toolkits, Smartboard, Brainpop, Supplemental Resources
How do I use the clock to tell time?	2. Tell and write time to the nearest minute and solve problems by calculating time intervals.	Workbooks Math Talk Pair-Share Partner work <u>Independent Practice-</u> Workbooks Technology Tickets Out the Door Homework	Formal- Quizzes and tests/or Performance Assessment, PSSA Informal- ticket out the door, think-pair-share, math talk, activity book, teacher observation, math journal *PDE Assessment Anchor M03.C-G.1	Show Me- (I-Pad), Whiteboards, math journals, activity books, homework books, assessment book, Teacher Manuals, Student Toolkits, Smartboard, Brainpop, Supplemental Resources
How do I use different coins and bills to make change?	3. Solve problems and make change involving money using a combination of coins and bills.		Formal- Quizzes and tests, Performance Task, PSSA	Show Me- (I-Pad), Whiteboards, math journals, activity books, homework books, assessment book, Teacher Manuals, Student Toolkits, Smartboard, Brainpop, Supplemental Resources



CAMP HILL SCHOOL DISTRICT

4th Grade: Math Standards for Measurement, Data and Probability

DOMAIN (MATH CONTENT):

Measurement and Data

STANDARDS FOR MATHEMATICAL PRACTICE:

Make sense of problems and persevere in solving them.
 Use appropriate tools strategically.
 Reason abstractly and quantitatively.
 Attend to precision.

Construct viable arguments and critique the reasoning of others.
 Look for and make use of structure.
 Model with mathematics.
 Look for and make sense of regularity in repeated reasoning.

Essential Questions	CC Focus for Instruction	Planned Learning Experiences/ Instructional Strategies	Assessments	Resources
How do I use different charts/graphs to show/interpret data?	4. Represent and interpret data using tally charts, tables, pictographs, line plots, and bar graphs.	<u>Direct Instruction-</u> Introducing Modeling Showing Vocabulary Repeating Technology <u>Guided practice-</u> Small group with teacher Whole class practice Student Leaders Quick Practice Daily Routine Math Tool Kit <u>Collaborative Practice-</u> Workbooks Math Talk Pair-Share Partner work	Formal- Quizzes and tests, Performance Task, PSSA Informal- ticket out the door, think-pair-share, math talk, activity book, teacher observation, math journal *PDE Assessment Anchor M03.D-M.2	Show Me- (I-Pad), Whiteboards, math journals, activity books, homework books, assessment book, Teacher Manuals, Student Toolkits, Smartboard, Brainpop, Supplemental Resources
How do I find the area of a rectangle using multiplication and/or addition?	5. Determine the area of a rectangle and apply the concept to multiplication and to addition.	<u>Independent Practice-</u> Workbooks Technology Tickets Out the Door Homework	Formal- Quizzes and tests/or Performance Assessment, PSSA Informal- ticket out the door, think-pair-share, math talk, activity book, teacher observation, math journal *PDE Assessment Anchor M03.D-M.3	
How do I find the perimeter of polygons? How do I label linear and area measurements?	6. Solve problems involving perimeters of polygons and distinguish between linear and area measures.		Formal- Quizzes and tests/or Performance Assessment, PSSA Informal- ticket out the door, think-pair-share, math talk, activity book, teacher observation, math journal *PDE Assessment Anchor M03.D-M.4	