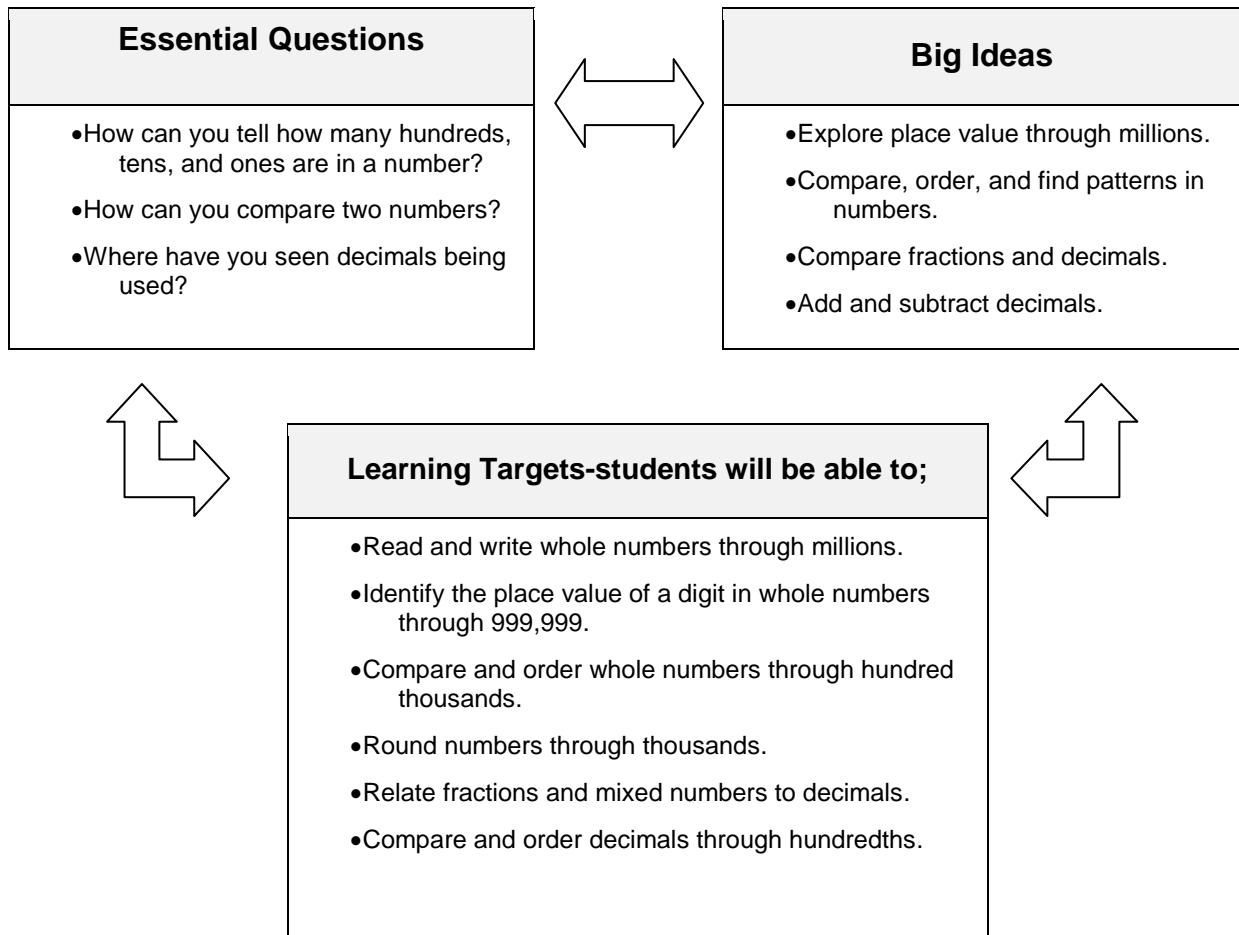


Unit Title	Unit 1: Place Value and Decimal Place Value
Time frame	4 weeks
21 st Century Themes	Critical Thinking and Problem Solving Communication and Collaboration ICT (Information, Communications and Technology) Literacy Flexibility and Adaptability Initiative and Self-Direction Productivity and Accountability Social and Cross-Cultural Skills
Interdisciplinary focus and technology integration	Science: Learn about George Washington Carver, scientist and inventor. Social Studies: Learn about Mt. Rushmore. Technology: Use the internet to practice Place Value and Decimal Place Value.

Stage 1: Integrate essential questions, big ideas and learning targets, and ensure it can be differentiated and assessed



- Estimate decimals sums and differences.
- Add and subtract decimals through hundredths.
- Analyze and solve problems using skills and strategies.

Assessment

- Formal and Informal Teacher Observations
- Formative checks for understanding and summative assessments
- Tests / Quizzes
- Study Island Assignments
- Supplemental NJ ASK Practice Questions from NJ ASK Workbooks

Differentiation

- Hands-On Activities
- Diagnostic Assessment (based on content /skill pre-tests)
- Kinesthetic Activities
- Re-teach and Enrichment Activities
- Power Presentations (Activ Boards)
- Cooperative Learning (Flexible Grouping)
- Peer Tutoring
- Tiered Activities

Stage 2: Backward planning: from the assessment to the learning activities through inquiry

Content Standards

NBT 4.1, 4.2, 4.3
MP 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8

Approaches to Learning

In this unit, students will acquire the knowledge to:

- Use place value to millions.
- Write, compare, and order numbers through hundred thousands.

Learning Experiences

- Course of study
- Notes and examples
- Practice by homework

Teaching Strategies

- Direct instruction
- Differentiated instruction
- Interdisciplinary activities

- Cumulative review exercises
- Test prep questions
- Hands-on activities and use of manipulatives
- Problem solving activities

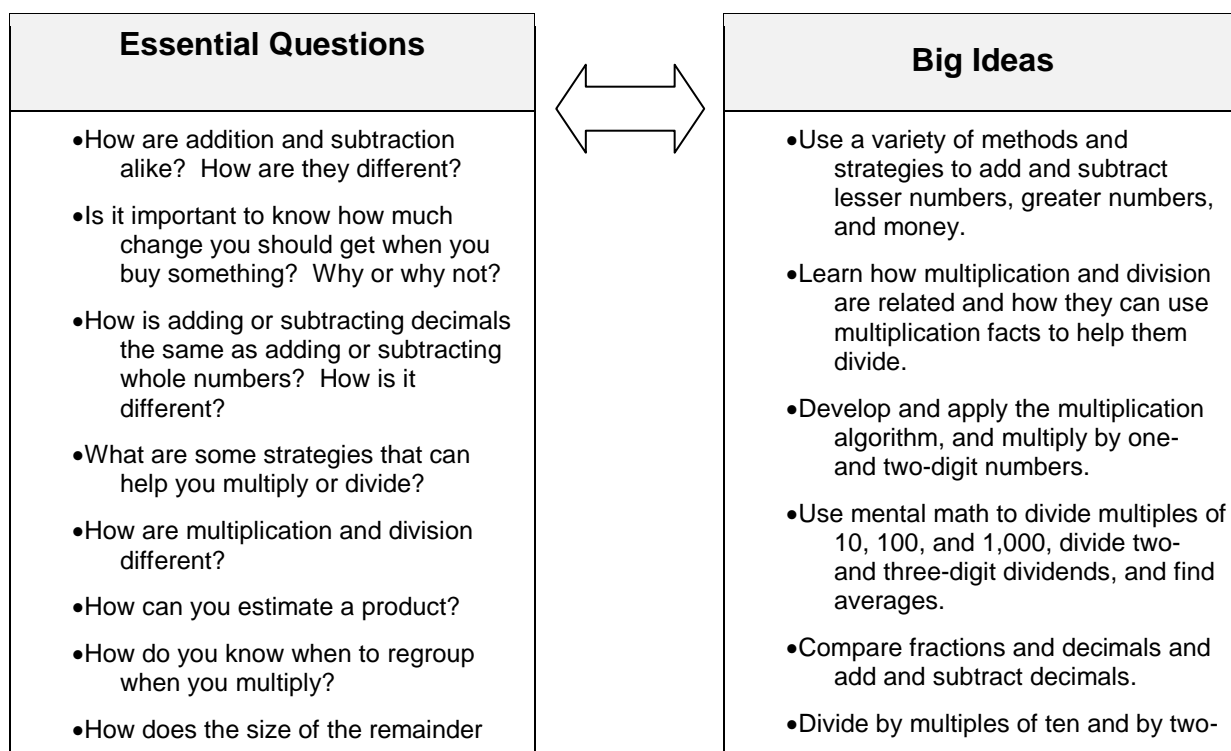
- Cooperative learning activities
- Reinforcement and remediation

Resources

- Mathematics: The Path to Math Success (Grade 4). 2001: Silver Burdett Ginn, Inc.
- Internet: www.studyisland.com

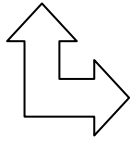
Unit Title	Unit 2: Number Operations and Theory
Time frame	14 weeks
21 st Century Themes	<p>Critical Thinking and Problem Solving</p> <p>Communication and Collaboration</p> <p>ICT (Information, Communications and Technology) Literacy</p> <p>Flexibility and Adaptability</p> <p>Initiative and Self-Direction</p> <p>Productivity and Accountability</p> <p>Global Awareness</p> <p>Financial, Economic, Business and Entrepreneurial Literacy</p> <p>Social and Cross-Cultural Skills</p>
Interdisciplinary focus and technology integration	<p>Science: Make a collection of rocks, or coins.</p> <p>Language Arts: Write about the collection.</p> <p>Art: Design informational animal cards.</p> <p>Social Studies: Learn the history of Ferris wheels.</p> <p>Technology: Use the internet to practice addition, subtraction, multiplication, and division problems.</p>

Stage 1: Integrate essential questions, big ideas and learning targets, and ensure it can be differentiated and assessed



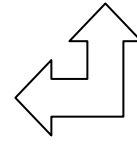
compare to the size of the divisor?
•How can you estimate a quotient?

digit numbers.



Learning Targets-students will be able to;

- Estimate whole number sums and differences.
- Add and subtract up to five-digit whole numbers, including money.
- Make change using amounts up to \$100.
- Use 2 through 10 as factors.
- Use 2 through 10 as divisors.
- Use multiplication properties and rules of division.
- Relate multiplication and division using fact families.
- Multiply multiples of 10, 100, and 1,000 by one- and two-digit numbers.
- Estimate products.
- Multiply two-, three-, and four-digit numbers by one- and two-digit numbers, including money.
- Estimate decimal sums and differences.
- Add and subtract decimals through hundredths.
- Divide multiples of 10, 100, and 1,000 by one-digit divisors.
- Use compatible numbers to estimate quotients.
- Divide two- and three-digit numbers by one-digit numbers, including money.
- Find averages.
- Divide with tens and hundreds.
- Use compatible numbers to estimate quotients.
- Divide by two-digit numbers.
- Analyze and solve problems using skills and strategies.



Assessment

- Formal and Informal Teacher Observations
- Formative checks for understanding and summative assessments
- Tests / Quizzes
- Study Island Assignments
- Supplemental NJ ASK Practice Questions from NJ ASK Workbooks

Differentiation

- Hands-On Activities
- Diagnostic Assessment (based on content /skill pre-tests)
- Kinesthetic Activities
- Re-teach and Enrichment Activities
- Power Presentations (Activ Boards)
- Cooperative Learning (Flexible Grouping)
- Peer Tutoring
- Tiered Activities

Stage 2: Backward planning: from the assessment to the learning activities through inquiry

Content Standards

OA 3.1, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9

OA 4.1, 4.2, 4.3, 4.4, 4.5

MP 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8

Approaches to Learning

In this unit, students will acquire the knowledge to:

- Add and subtract whole numbers up to five digits with regrouping.
- Add and subtract money.
- Compare, order, add, and subtract decimals to hundredths.
- Use multiplication and division facts.
- Relate multiplication and division.
- Multiply numbers up to four digits by a one-digit number.
- Introduce multiplying by a two-digit numbers with and without remainders.
- Divide three-digit dividends and multiples of 1,000 by one-digit numbers.
- Introduce finding averages.

Learning Experiences

- Course of study
- Notes and examples
- Practice by homework
- Cumulative review exercises
- Test prep questions
- Hands-on activities and use of manipulatives
- Problem solving activities

Teaching Strategies

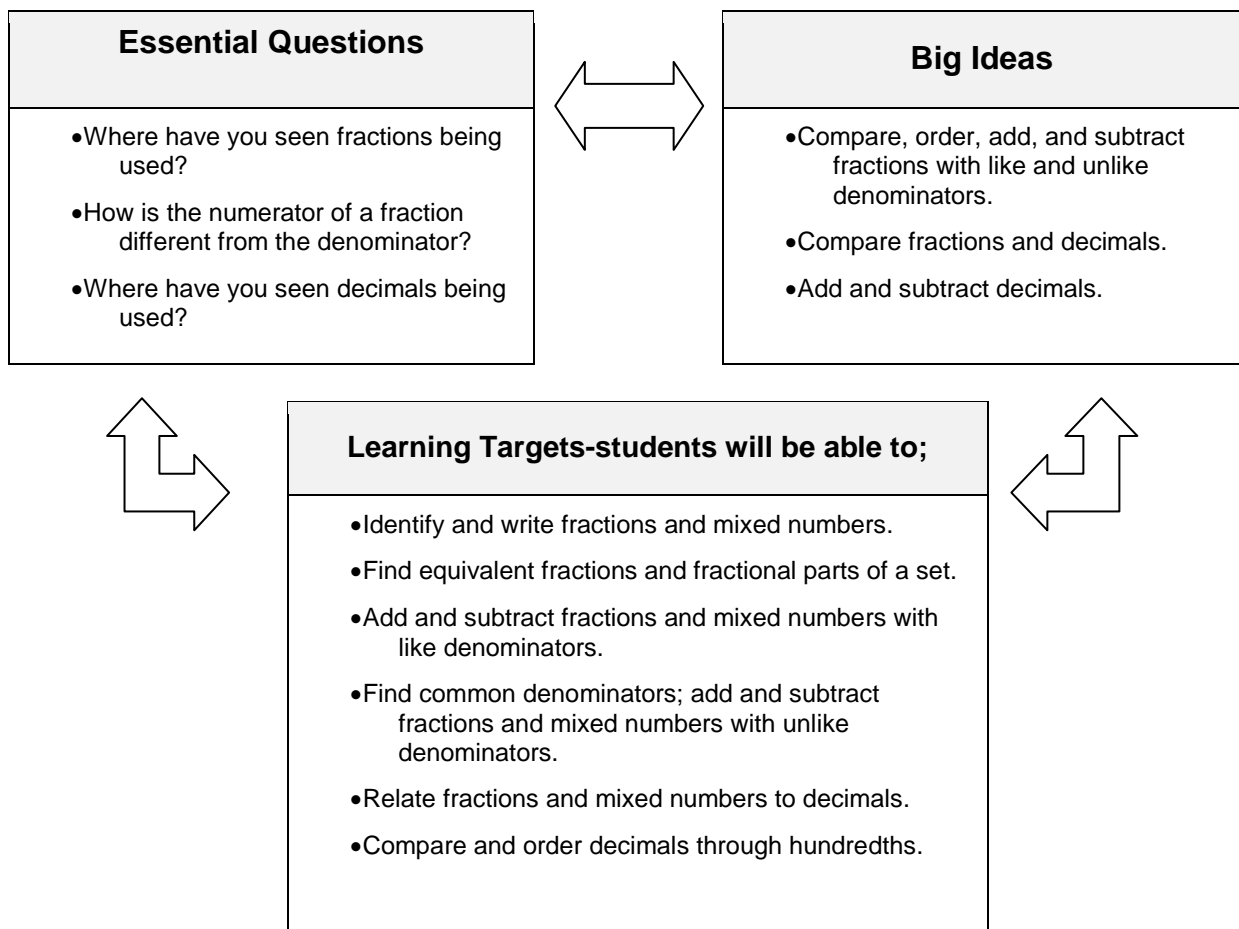
- Direct instruction
- Differentiated instruction
- Interdisciplinary activities
- Cooperative learning activities
- Reinforcement and remediation

Resources

- Mathematics: The Path to Math Success (Grade 4). 2001: Silver Burdett Ginn, Inc.
- Internet: www.studyisland.com

Unit Title	Unit 3: Fractions and Decimals
Time frame	5 weeks
21 st Century Themes	Critical Thinking and Problem Solving Communication and Collaboration ICT (Information, Communications and Technology) Literacy Flexibility and Adaptability Initiative and Self-Direction Productivity and Accountability Social and Cross-Cultural Skills
Interdisciplinary focus and technology integration	Social Studies: Design a toy. Technology: Learn about fractions and decimals. Language Arts: Make a recipe book.

Stage 1: Integrate essential questions, big ideas and learning targets, and ensure it can be differentiated and assessed



- Estimate decimal sums and differences.
- Add and subtract decimals through hundredths.
- Analyze and solve problems using skills and strategies.

Assessment

- Formal and Informal Teacher Observations
- Formative checks for understanding and summative assessments
- Tests / Quizzes
- Study Island Assignments
- Supplemental NJ ASK Practice Questions from NJ ASK Workbooks

Differentiation

- Hands-On Activities
- Diagnostic Assessment (based on content /skill pre-tests)
- Kinesthetic Activities
- Re-teach and Enrichment Activities
- Power Presentations (Activ Boards)
- Cooperative Learning (Flexible Grouping)
- Peer Tutoring
- Tiered Activities

Stage 2: Backward planning: from the assessment to the learning activities through inquiry

Content Standards

NF 4.1, 4.2, 4.3 A, B, C, D, 4.4 A, B, C, 4.5, 4.6, 4.7
 MP 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8

Approaches to Learning

In this unit, students will acquire the knowledge to:

- Compare, order, add, and subtract fractions and mixed numbers with like and unlike denominators.
- Compare, order, add, and subtract decimals to hundredths.

Learning Experiences

- Course of study
- Notes and examples
- Practice by homework

Teaching Strategies

- Direct instruction
- Differentiated instruction
- Interdisciplinary activities

- Cumulative review exercises
- Test prep questions
- Hands-on activities and use of manipulatives
- Problem solving activities

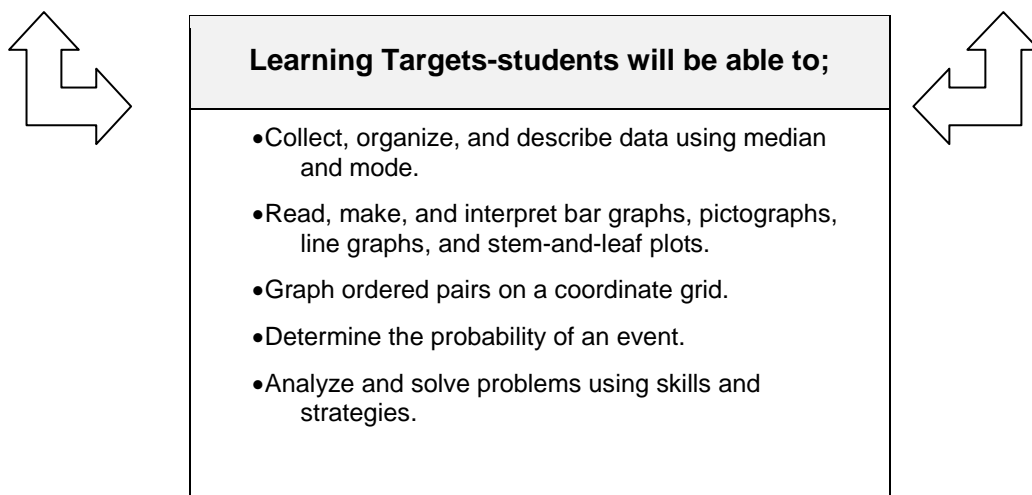
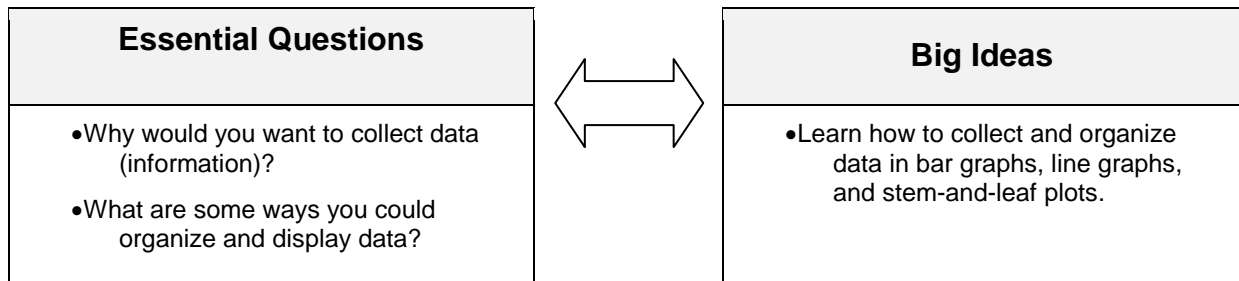
- Cooperative learning activities
- Reinforcement and remediation

Resources

- Mathematics: The Path to Math Success (Grade 4). 2001: Silver Burdett Ginn, Inc.
- Internet: www.studyisland.com

Unit Title	Unit 4: Data and Probability
Time frame	4 weeks
21 st Century Themes	Critical Thinking and Problem Solving Communication and Collaboration ICT (Information, Communications and Technology) Literacy Flexibility and Adaptability Initiative and Self-Direction Productivity and Accountability Global Awareness Social and Cross-Cultural Skills
Interdisciplinary focus and technology integration	Science: Learn how a tandem bike works. Social Studies: Plot a baseball infield, learn Olympic facts. Technology: Practice collecting data and making graphs.

Stage 1: Integrate essential questions, big ideas and learning targets, and ensure it can be differentiated and assessed



Assessment

- Formal and Informal Teacher Observations
- Formative checks for understanding and summative assessments
- Tests / Quizzes
- Study Island Assignments
- Supplemental NJ ASK Practice Questions from NJ ASK Workbooks

Differentiation

- Hands-On Activities
- Diagnostic Assessment (based on content /skill pre-tests)
- Kinesthetic Activities
- Re-teach and Enrichment Activities
- Power Presentations (Activ Boards)
- Cooperative Learning (Flexible Grouping)
- Peer Tutoring
- Tiered Activities

Stage 2: Backward planning: from the assessment to the learning activities through inquiry

Content Standards

MD 4.4

MP 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8

Approaches to Learning

In this unit, students will acquire the knowledge to:

- Collect and organize data in line graphs and stem-and-leaf plots.
- Use probability concepts.

Learning Experiences

- Course of study
- Notes and examples
- Practice by homework
- Cumulative review exercises
- Test prep questions
- Hands-on activities and use of manipulatives
- Problem solving activities

Teaching Strategies

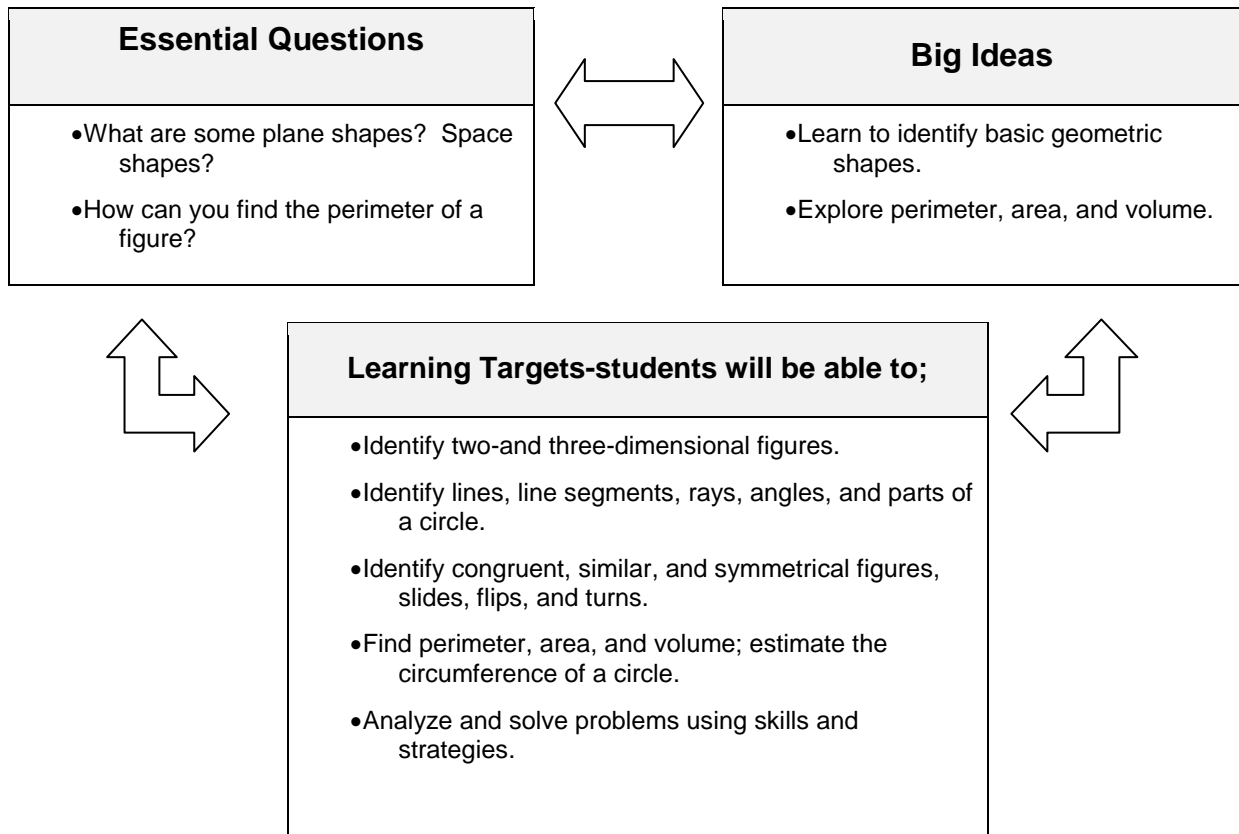
- Direct instruction
- Differentiated instruction
- Interdisciplinary activities
- Cooperative learning activities
- Reinforcement and remediation

Resources

- Mathematics: The Path to Math Success (Grade 4). 2001: Silver Burdett Ginn, Inc.
- Internet: www.studyisland.com

Unit Title	Unit 5: Geometry and Geometric Measurement
Time frame	4 weeks
21 st Century Themes	Critical Thinking and Problem Solving Communication and Collaboration ICT (Information, Communications and Technology) Literacy Flexibility and Adaptability Initiative and Self-Direction Productivity and Accountability Global Awareness
Interdisciplinary focus and technology integration	Science: Investigate symmetry in the human face. Social Studies: Solve a Chinese puzzle. Language Arts: Learn about prefixes. Technology: Use the internet to practice Geometry problems.

Stage 1: Integrate essential questions, big ideas and learning targets, and ensure it can be differentiated and assessed



Assessment

- Formal and Informal Teacher Observations
- Formative checks for understanding and summative assessments
- Tests / Quizzes
- Study Island Assignments
- Supplemental NJ ASK Practice Questions from NJ ASK Workbooks

Differentiation

- Hands-On Activities
- Diagnostic Assessment (based on content /skill pre-tests)
- Kinesthetic Activities
- Re-teach and Enrichment Activities
- Power Presentations (Activ Boards)
- Cooperative Learning (Flexible Grouping)
- Peer Tutoring
- Tiered Activities

Stage 2: Backward planning: from the assessment to the learning activities through inquiry

Content Standards

G 4.1, 4.2, 4.3
MD 4.1, 4.2, 4.3, 4.5 A, B, 4.6, 4.7
MP 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8

Approaches to Learning

In this unit, students will acquire the knowledge to:

- Classify basic geometric shapes by their properties.
- Use formulas to find perimeter, circumference, area, and volume.

Learning Experiences

- Course of study
- Notes and examples
- Practice by homework
- Cumulative review exercises
- Test prep questions
- Hands-on activities and use of manipulatives
- Problem solving activities

Teaching Strategies

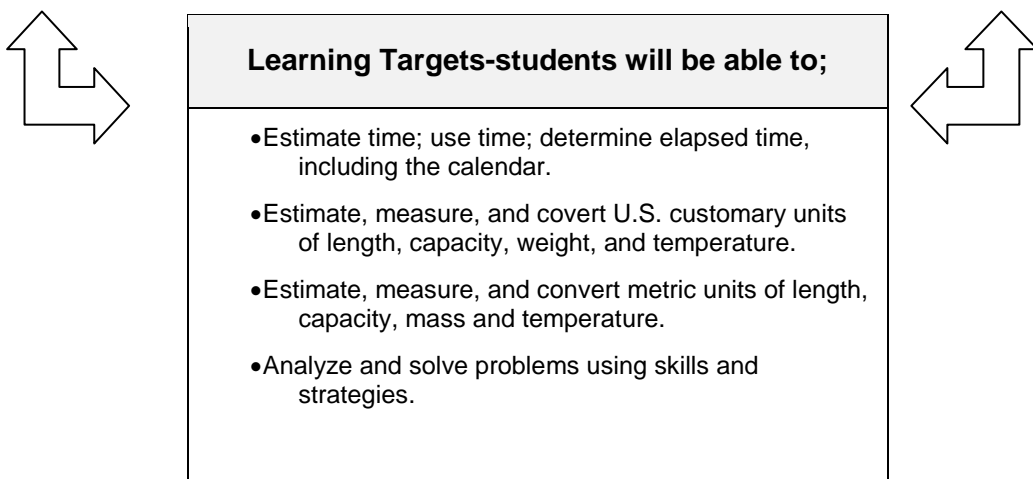
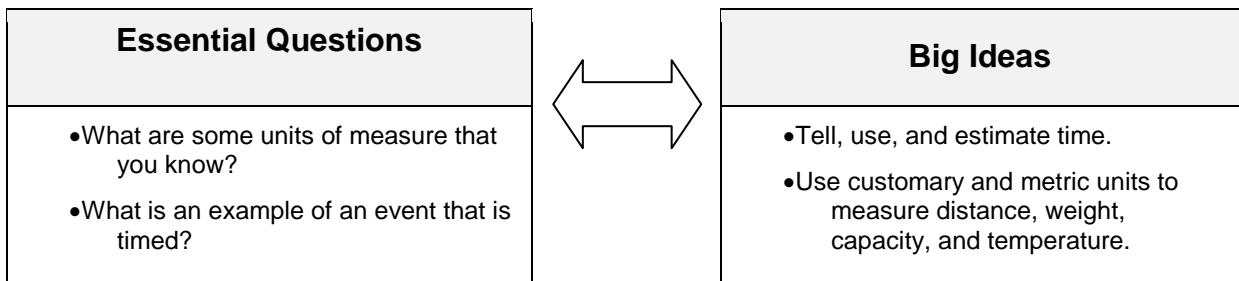
- Direct instruction
- Differentiated instruction
- Interdisciplinary activities
- Cooperative learning activities
- Reinforcement and remediation

Resources

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- Internet: www.studyisland.com

Unit Title	Unit 6: Time and Measurement
Time frame	5 weeks
21 st Century Themes	Critical Thinking and Problem Solving Communication and Collaboration ICT (Information, Communications and Technology) Literacy Flexibility and Adaptability Initiative and Self-Direction Productivity and Accountability Global Awareness Social and Cross-Cultural Skills
Interdisciplinary focus and technology integration	Science: Look at a timeline of some important inventions. Social Studies: Explore ancient Egyptians and standardized measurement. Language Arts: Learn about the Olympics. Technology: Explore the smallest watch, largest tricycle.

Stage 1: Integrate essential questions, big ideas and learning targets, and ensure it can be differentiated and assessed



Assessment

- Formal and Informal Teacher Observations
- Formative checks for understanding and summative assessments
- Tests / Quizzes
- Study Island Assignments
- Supplemental NJ ASK Practice Questions from NJ ASK Workbooks

Differentiation

- Hands-On Activities
- Diagnostic Assessment (based on content /skill pre-tests)
- Kinesthetic Activities
- Re-teach and Enrichment Activities
- Power Presentations (Activ Boards)
- Cooperative Learning (Flexible Grouping)
- Peer Tutoring
- Tiered Activities

Stage 2: Backward planning: from the assessment to the learning activities through inquiry

Content Standards

MD 3.1, 3.2, 3.4, 3.5 AB, 3.6, 3.7 AB, 3.8, 4.1
MP 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8

Approaches to Learning

In this unit, students will acquire the knowledge to:

- Tell time to the second and find elapsed time.
- Measure length, weight, mass, and capacity.
- Use millimeter, ton, and fluid ounce.

Learning Experiences

- Course of study
- Notes and examples
- Practice by homework
- Cumulative review exercises
- Test prep questions
- Hands-on activities and use of manipulatives
- Problem solving activities

Teaching Strategies

- Direct instruction
- Differentiated instruction
- Interdisciplinary activities
- Cooperative learning activities
- Reinforcement and remediation

Resources

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