Unit 6

Content Area: **Mathematics**
Course(s): **Mathematics 1**
Time Period: **March**
Length: **30 Days**
Status: **Published**

Unit Overview

In unit 6, students will learn to:

describe and compose two-dimensional and three-dimensional shapes. how to partition shapes, compare lengths of objects, measure objects, tell time to the hour and half hour, and be introduced to the value of coins.

Unit skills include:

- Determine attributes of shapes
- Partition shapes into equal parts
- Tell time to the hour and half-hour on an analog and digital clock
- Compare and order lengths of objects
- Measure the length of an object using non-standard units of measurement
- Identify coins and their values
- Find the total value of a set of coins

Priority Standards

MATH.1.M.A.1	Order three objects by length; compare the lengths of two objects indirectly by using a third object.
MATH.1.M.A.2	Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.
MATH.1.M.B.3	Tell and write time in hours and half-hours using analog and digital clocks.
MATH.1.M.C.4	Know the comparative values of coins and all dollar bills (e.g., a dime is of greater value than a nickel). Use appropriate notation (e.g., 69¢, $10).
MATH.1.M.C.5	Use dollars in the solutions of problems up to $20. Find equivalent monetary values (e.g., a nickel is equivalent in value to five pennies). Show monetary values in multiple ways.
MATH.1.G.A.1	Distinguish between defining attributes (e.g., triangles are closed and three-sided) versus non-defining attributes (e.g., color, orientation, overall size); build and draw shapes to

	possess defining attributes.
MATH.1.G.A.2	Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape, and compose new shapes from the composite shape.
MATH.1.G.A.3	Partition circles and rectangles into two and four equal shares, describe the shares using the words halves, fourths, and quarters, and use the phrases half of, fourth of, and quarter of. Describe the whole as two of, or four of the shares. Understand for these examples that decomposing into more equal shares creates smaller shares.

Learning Targets

- Build and draw a composite shape using two or more shapes
- Compare and order objects by length
- Compare two objects by comparing their lengths to a third object
- Describe and name shapes according to their attributes
- Describe equal parts using the words halves, fourths, and quarters
- Distinguish between defining attributes and non-defining attributes
- Draw lines to partition shapes into two or four equal parts
- Find the total value of a set of coins
- Identify coins and their values
- Measure objects using non-standard units.
- Tell and write time to the half hour on an analog clock and digital clock
- Tell and write time to the hour on an analog clock and digital clock
- Understand that decomposing into more equal shares creates smaller shares
- Write numbers and hands on clock models

Essential Questions

- How can telling time help us in our every day life?
- What different parts are there in different shapes?
- What different shapes do we use in our world?
- What strategies can I use to compare different lengths and measurements?

Materials and Resources

- Clock manipulative
- Coin manipulatives
- iReady Learning Path component
- iReady Math book
- iReady Math Centers

- Non-standard units of measurement
- Shape manipulatives
- Whiteboards

Unit Assessments (Required)

- Diagnostic Assessments
- Exit Tickets
- Independent practice pages
- Models
- My Learning Path weekly progress
- Teacher Observation
- Unit Tests

Learning Plan (Skills and Activities)

Time Frame	Lesson	Standard	Targets
Lesson 22- 5 days	Shapes	1.G.A.1 1.G.A.2	• Build and draw a composite shape using two or more shapes • Describe and name shapes according to their attributes • Distinguish between defining attributes and non-defining attributes
Lesson 23- 5 days	Break Shapes into Equal Parts	1.G.A.3	• Understand that decomposing into more equal shares creates smaller shares • Describe equal parts using the words halves, fourths, and quarters • Draw lines to partition shapes into two or four equal parts

Lesson 24- 5 days	Tell Time	1.M.B.3	• Write numbers and hands on clock models • Tell and write time to the half hour on an analog clock and digital clock • Tell and write time to the hour on an analog clock and digital clock
Lesson 25- 5 days	Compare and Order Lengths	1.M.A.1	• Compare two objects by comparing their lengths to a third object • Compare and order objects by length
Lesson 26- 5 days	Measure Length	1.M.A.2	• Measure objects using non-standard units
Lesson 27- 5 days	Money	1.M.C.4 1.M.C.5	• Identify coins and their values • Find the total value of a set of coins

Strategies for Multilingual Learners

- Access to manipulatives
- Clarify test directions, read test questions
- Consistent routine
- Continue practicing vocabulary
- Modeling
- Peer partners
- Read directions to student
- Read word problems aloud
- Small group/individual review of prerequisite and current skills
- Use of visuals

Strategies for Students in Need of Intervention

- Access to manipulatives
- Additional time for assignments
- Answers to be dictated
- Concrete examples
- Extra visual and verbal cues and prompts
- Have student restate information
- Instruction on prerequisite skills/spiral review
- Instruction on prerequisite skills/spiral review Small group instruction
- Review of directions
- Support auditory presentations with visuals
- Varied reinforcement procedures
- Work in progress check

Strategies for Enrichment

- Alternate assignments/enrichment assignments
- Enrichment projects
- Extension activities
- Higher-level cooperative learning activities
- Pairing direct instruction w/ coaching to promote self directed learning
- Provide higher-order questioning and discussion opportunities
- Tiered centers or assignments

Technology Integration

- . 8.1.2.A.1 Identify the basic features of a digital device and explain its purpose.
- 8.1.2.A.4 Demonstrate developmentally appropriate navigation skills in virtual environments (i.e. games, museums).

Interdisciplinary Connections

Connections to Reading: Apply comprehension startegies to solve word problems. Incorporate literature relating to the math skill in lesson, such as, books on time.

Connections to Writing: Students write descriptions of composite shapes they have made.

Connections to Science: Incoporate time in experiments/investigations.

21st Century Skills/Career Ready Practices

- CRP1. Act as a responsible and contributing citizen and employee.
- CRP10. Plan education and career paths aligned to personal goals.
- CRP11. Use technology to enhance productivity.
- CRP2. Apply appropriate academic and technical skills.
- CRP4. Communicate clearly and effectively and with reason.
- CRP6. Demonstrate creativity and innovation.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.

WRK.9.1.2.CAP.1	Make a list of different types of jobs and describe the skills associated with each job.
TECH.9.4.2.CT.3	Use a variety of types of thinking to solve problems (e.g., inductive, deductive).
TECH.9.4.2.TL.3	Enter information into a spreadsheet and sort the information.
TECH.9.4.2.IML.1	Identify a simple search term to find information in a search engine or digital resource.
TECH.9.4.2.IML.2	Represent data in a visual format to tell a story about the data (e.g., 2.MD.D.10).
TECH.9.4.2.IML.4	Compare and contrast the way information is shared in a variety of contexts (e.g., social, academic, athletic) (e.g., 2.2.2.MSC.5, RL.2.9).