

Unit 3 Geometric Shapes

Content Area: **Mathematics**
Course(s):
Time Period: **Generic Time Period**
Length: **4 weeks**
Status: **Published**

Standards

MA.K.K.MD.A.2	Directly compare two objects with a measurable attribute in common, to see which object has “more of”/“less of” the attribute, and describe the difference.
MA.K.K.CC.A.2	Count forward beginning from a given number within the known sequence (instead of having to begin at 1).
LA.K.SL.K.1.A	Follow agreed-upon norms for discussions (e.g., listening to others with care and taking turns speaking about the topics and texts under discussion).
LA.K.L.K.4.A	Identify new meanings for familiar words and apply them accurately (e.g., knowing duck is a bird and learning the verb to duck).
LA.K.SL.K.1.B	Continue a conversation through multiple exchanges.
MA.K.K.OA.A.5	Demonstrate fluency for addition and subtraction within 5.
MA.K.K.CC.B	Count to tell the number of objects.
MA.K.K.MD.B	Classify objects and count the number of objects in each category.
LA.K.SL.K.2	Confirm understanding of a text read aloud or information presented orally or through other media by asking and answering questions about key details and requesting clarification if something is not understood.
LA.K.SL.K.3	Ask and answer questions in order to seek help, get information, or clarify something that is not understood.
CAEP.9.2.4.A.2	Identify various life roles and civic and work - related activities in the school, home, and community.
LA.K.L.K.5.A	Sort common objects into categories (e.g., shapes, foods) to gain a sense of the concepts the categories represent.
LA.K.L.K.5.B	Demonstrate understanding of frequently occurring verbs and adjectives by relating them to their opposites (antonyms).
MA.K.K.MD.B.3	Classify objects into given categories; count the numbers of objects in each category and sort the categories by count.
LA.K.L.K.5.C	Identify real-life connections between words and their use (e.g., note places at school that are colorful).
LA.K.SL.K.6	Speak audibly and express thoughts, feelings, and ideas clearly.
MA.K.K.CC.B.4a	When counting objects, say the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object.
SCI.K-2.5.2.2.A	All objects and substances in the natural world are composed of matter. Matter has two fundamental properties: matter takes up space, and matter has inertia.
CAEP.9.2.4.A.3	Investigate both traditional and nontraditional careers and relate information to personal likes and dislikes.
MA.K.K.G.A.1	Describe objects in the environment using names of shapes, and describe the relative positions of these objects using terms such as above, below, beside, in front of, behind, and next to.

MA.K.K.G.B.4	Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts (e.g., number of sides and vertices/“corners”) and other attributes (e.g., having sides of equal length).
CAEP.9.2.4.A.4	Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.
MA.K.K.G.A.2	Correctly name shapes regardless of their orientations or overall size.
MA.K.K.G.A.3	Identify shapes as two-dimensional (lying in a plane, “flat”) or three-dimensional (“solid”).
CAEP.9.2.4.A.1	Identify reasons why people work, different types of work, and how work can help a person achieve personal and professional goals.
LA.K.L.K.1.E	Use the most frequently occurring prepositions (e.g., to, from, in, out, on, off, for, of, by, with).
LA.K.L.K.1.F	Produce and expand complete sentences in shared language activities.
MA.K.K.G.B.5	Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and drawing shapes.
MA.K.K.G.B.6	Compose simple shapes to form larger shapes.
SCI.K-2.5.2.2.A.1	Sort and describe objects based on the materials of which they are made and their physical properties.

Essential Questions

How do you identify, describe, name the following two-dimensional shapes: circles, squares, triangles, rectangles and hexagons?

How can you use the words alike and different to describe two-dimensional shapes by their attributes?

How can you solve a problem using the strategy draw a picture?

How can knowing the parts of two-dimensional shapes help me to join shapes?

How can identifying and describing shapes help you sort them?

How can you describe three-dimensional shapes?

How does sorting help you display information?

How do you display information on a graph?

Student Learning Objectives

Chapter 9

SWBAT identify and name two-dimensional shapes: circle, square, rectangle, hexagon, triangle.

SWBAT describe the attributes of two-dimensional shapes: circle, square, rectangle, hexagon, triangle.

SWBAT use the words alike and different to compare two-dimensional shapes by attributes.

SWBAT solve problems by using the strategy draw a picture.

Chapter 10

SWBAT analyze and compare three-dimensional shapes by attributes.

SWBAT identify, name and describe three-dimensional shapes including spheres.

SWBAT identify, name and describe three-dimensional shapes including cubes

SWBAT identify, name and describe three-dimensional shapes including cylinders.

SWBAT identify, name and describe three-dimensional shapes including cones.

SWBAT solve problems by using the strategy use logical reasoning.

SWBAT model two-and three dimensional shapes by building and drawing.

SWBAT use the terms *above* and *below* to describe shapes in the environment.

SWBAT use the terms *beside* and *next to* to describe shapes in the environment.

SWBAT use the terms *in front of* and *behind* to describe shapes in the environment.

Chapter 12

SWBAT classify and count objects by color.

SWBAT classify and count objects by shape.

SWBAT classify and count objects by size.

SWBAT make a graph to count objects that have been classified into categories.

SWBAT read a graph to count objects that have been classified into categories.

Materials

Achieve the Core:

<http://achievethecore.org/page/2853/go-math-k-5-guidance-documents>

Student Editions-9, 10, 12

Teacher Editions 9, 10, 12

Chapter Resources-School Home Letters, Reteach and Enrich

Grab N Go Center Kit

Math on the Spot Video

Animated Math Models

iTools

Thinkcentral.com

manipulatives

Activities

Show What you know

Problem of the Day- Daily Routines

Games-Number Picture (chap 9): Follow the Shapes (chap 10): At the Farm (chap 12)

Vocabulary Game- Shapes (chap 9): Picture it (chap 10): Guess the Word (chap 12)

Journal page

Vocabulary builder

Vocabulary Reader- School Fun

Real World Project-online project- Alike and Different

Lesson-5 E's:Engage, Explain, Explore, Elaborate, Evaluate

- 9.1-Identify and name circles
- 9.2-Describe circles
- 9.3-Identify and name squares
- 9.4- Describe squares
- 9.5-Identify and name triangles
- 9.6-Describe triangles
- Mid-Chapter checkpoint
- 9.7-Identify and name rectangles
- 9.8-Describe rectangles
- 9.9-Identify and name hexagons
- 9.10- Describe hexagons
- 9.11- Algebra-Compare two-dimensional shapes
- 9.12- Problem solving-Draw to join shapes
- 10.1- Three-dimensional shapes
- 10.2- Identify, name, and describe spheres
- 10.3-Identify, name and describe cubes
- 10.4-Identify, name and describe cylinders
- 10.5-Identify, name and describe cones
- Mid-Chapter checkpoint
- 10.6-Problem solving-Two-and Three-dimensional Shapes
- 10.7-Models Shapes
- 10.8-Above and below

- 10.9-Beside and Next to
- 10.10-In front of and behind
- 12.1-Algebra-Classify and count by color
- 12.2- Algebra-Classify and count by shape
- 12.3-Algebra- Classify and count by Size
- Mid-Chapter checkpoint
- 12.4-Make a concrete graph
- 12.5-Read a graph

Quick check

Groups

Practice and Homework

Assessment

Show what you know

Diagnostic Interview Task

Digital Personal Math trainer

Lesson quick check

Mid-Chapter checkpoint

Chapter Review/Test

Chapter Test

Performance Assessment Task

Fact Fluency

Games-Student Edition

Fluency Standard Lessons-Student Edition

Fluency Builder-Teacher Edition

- shape fluency
- count to 20
- count to 50
- subtraction/addition within 5
- count to 100 by 10's
- three-dimensional shape names
- position words
- same number
- sort and count

Strategies and Practices for Skills and Facts Fluency

Teacher Resource Book

HMH Mega Math

Personal Math Trainer: Standards Quizzes

Animated Math Models

Manipulatives

Calendar time

Accommodations and Modifications

Personal Math trainer

Intervention Options

- on-level

- strategic
- intensive

Grab and Go Differentiated Centers Kit

- independent activities

Reteach pages

Enrich pages

ELL strategies

Leveled quizzes and tests

Leveled performance tasks

Animated Math models

Advanced learners activities