# **Unit 6 Reveal Grade 1**

Content Area: Math
Course(s): Math
Time Period: December
Length: 3 weeks
Status: Published

## **Unit Overview**

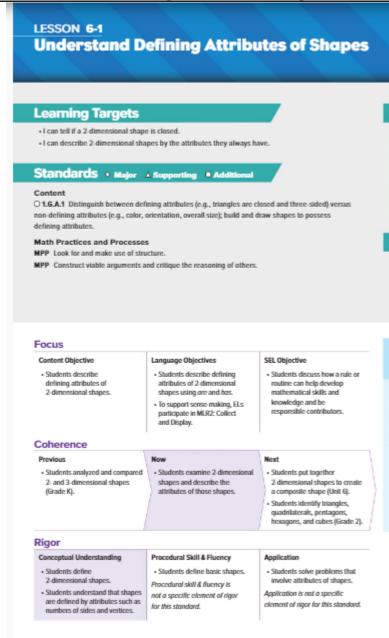
UNIT 6 PLANNER
Shapes and Solids

| LESS | ON  | MATH OBJECTIVE  | LANGUAGE OBJECTIVE   | SOCIAL AND EMOTIONAL<br>LEARNING OBJECTIVE  | LESSON | KEY VOCABULAR   |
|------|---|---|--|---|--------|---|
| Unit | Opener William Shape Sudok                  | oku. Use prior knowledge of shapes and color to complete mini-sudoku style puzzles.   |  |   |        |   |
|      |   |   |  |   |        | Math Terms  |
| 6-1  | Understand Defining<br>Attributes of Shapes | Students describe defining<br>attributes of 2-dimensional shapes.   | Students describe defining attributes of 2-dimensional shapes using <i>are</i> and <i>has</i> .  | Students discuss how a rule or<br>routine can help develop<br>mathematical skills and<br>knowledge and be responsible<br>contributors.  | 6-1    | 2-dimensional<br>(2-0) shape<br>attribute, closed<br>defining attribute<br>side, vertex               |
| 6-2  | Understand Non-Defining<br>Attributes       | Students describe attributes that<br>do not define shapes. Students<br>draw 2-dimensional shapes given<br>defining and non-defining<br>attributes.              | Students use has and ove to<br>describe and draw 2-dimensional<br>shapes given defining and non-<br>defining attributes.                   | Students demonstrate self-<br>awareness of personal strengths<br>and areas of challenge in<br>mathematics.                              | 6-2    | 2-dimensional<br>(2-D) shape<br>attribute<br>closed<br>defining attribute                             |
| Math | Probe 2-Dimensional Shap                    | e Sort Sort shapes to demonstrate un  | derstanding of triangle and rectangle a  | ttributes.  |        |   |
| 6-3  | Compose Shapes                              | Students put together<br>2-dimensional shapes to create a<br>composite shape.   | Students use using to explain how<br>to put together 2-dimensional<br>shapes to create a composite shape.                                  | Students employ techniques that<br>can be used to help maintain<br>focus and manage reactions to<br>potentially frustrating situations. | 6-3    | 2-dimensional<br>(2-D) shape  |
| 6-4  | Build New Shapes                            | Students create a new<br>2-dimensional composite shape<br>from an existing composite shape.   | Students describe how to create a<br>new 2-dimensional shape from an<br>existing composite shape using con.                                | Students identify personal traits<br>that make them good students,<br>peers, and math learners.   | 6-4    | 2-dimensional<br>(2-D) shape  |
| 6-5  | Understand Attributes of Solids             | Students describe attributes that define and do not define solids.  | Students use has to describe attributes that define and do not define solids.  | Students discuss the value of<br>hearing different viewpoints and<br>approaches to problem solving.                                     | 6-5    | 3-dimensional<br>(3-D) shape<br>apex<br>base<br>defining attribute<br>edge, face<br>rectangular prism |
| 6-6  | Build New Solids                            | Students put together solids to<br>create a composite solid shape.<br>Students create a new solid<br>composite shape from an existing<br>solid composite shape. | Students use can to describe how to<br>put together solids to create a<br>composite solid shape from an<br>existing solid composite shape. | Students engage in active<br>listening and work collaboratively<br>with a partner to complete<br>mathematical tasks.                    | 6-6    | 3-dimensional<br>(3-D) shape<br>reclangular prism   |
|      | Review<br>ncy Practice                      |   |  |   |        |   |
|      | Assessment                                  |   |  |   |        |   |

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## **Enduring Understandings**

## **Instructional Strategies and Learning Activities**



## LESSON 6-2

## **Understand Non-Defining Attributes**

## **Learning Targets**

- · I can identify 2-dimensional shapes of different colors, sizes, and direction.
- . I can explain why changing the color, size, or direction does not change the type of shape.

## Standards • Major A Supporting • Additional

#### Content

O 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 Practices and Processes

MPP Look for and make use of structure.

MPP Construct viable arguments and critique the reasoning of others.

#### Focus

#### Content Objectives

- Students describe attributes that do not define shapes.
   Students use has and are to describe and draw 2-dimensi
- Students draw 2-dimensional shapes given defining and non-defining attributes.

#### Language Objectives

- Students use has and are to describe and draw 2-dimensional shapes given defining and non-defining attributes.
- To optimize output, ELs participate in MLR4: Information Gap.

#### SEL Objective

 Students demonstrate selfawareness of personal strengths and areas of challenge in mathematics.

#### Coherence

#### Previous

- Students analyzed and compared
   2- and 3-dimensional shapes
   (Grade K).
- Students described defining attributes of 2-dimensional shapes (Unit 6).

#### Now

- Students distinguish between attributes that define shapes and those that do not.
- Students are given attributes of 2-dimensional shapes to draw the shapes.

#### Moset

- Students put together
   2-dimensional shapes to create
- a composite shape (Unit 6).
- Students identify triangles, quadrilaterals, pentagons, hexagons, and cubes (Grade 2).

#### Rigor

### Conceptual Understanding

 Students understand that shapes have defining and non-defining attributes.

### Procedural Skill & Fluency

 Students describe non-defining attributes of basic shapes.

Procedural skill & fluency is

Procedural skill & fluency is not a specific element of rigor for this standard.

#### Application

 Students solve problems that involve defining and nondefining attributes of shapes.

Application is not a specific element of rigor for this standard.

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## LESSON 6-3 Compose Shapes

## **Learning Targets**

- . I can use 2-dimensional shapes to make other 2-dimensional shapes.
- . I can explain how to use shapes to make other shapes.

## Standards • Major A Supporting • Additional

#### Content

O 1.G.A.2 Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) and 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 Practices and Processes

MPP Attend to precision.

MPP Make sense of problems and persevere in solving them.

#### Focus

#### Content Objective

Students put together
 2-dimensional shapes to create a composite shape.

#### Language Objectives

- Students use using to explain how to put together
   dimensional shapes to create a composite shape.
- To cultivate conversation, ELs participate in MLR8: Discussion Supports.

#### SEL Objective

 Students employ techniques that can be used to help maintain focus and manage reactions to potentially frustrating situations.

#### Coherence

#### Previous

 Students composed simple shapes to form larger shapes (Grade K).

#### Now

 Students make composite shapes by putting together 2-dimensional shapes.

#### Next

 Students recognize and draw shapes with specified attributes
 Students 28.

### Rigor

#### Conceptual Understanding

 Students understand that shapes can be joined to create new shapes with different properties.

#### Procedural Skill & Fluency

 Students build composite shapes.

Procedural skill & fluency is not a targeted element of rigor for this standard.

#### Application

Students use shapes to build composite shapes.

Application is not a targeted element of rigor for this standard.

# LESSON 6-4 Build New Shapes

## **Learning Targets**

- I can take shapes apart and put them together to make a new shape.
- . I can explain how to take shapes apart and put them together to make a new shape.

### Standards • Major A Supporting • Additional

#### Content

O 1.6.A.2 Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarier-circles) and 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 Practices and Processes

MPP Model with mathematics.

MPP Use appropriate tools strategically.

#### Focus

#### Content Objective

 Students create a new 2-dimensional composite shape from an existing composite shape.

#### Language Objectives

- Students describe how to create a new 2-dimensional shape from an existing composite shape using con.
- To maximize linguistic and cognitive meta-awareness, ELs participate in MLR7: Compare and Connect.

#### SEL Objective

 Students identify personal traits that make them good students, peers, and math learners.

#### Coherence

#### Previous

 Students composed simple shapes to form larger shapes (Grade K).

#### Now

 Students break apart an exiting shape to create a new 2-dimensional shape.

#### Next

 Students recognize and draw shapes with specified attributes (Grade 2).

### Rigor

#### Conceptual Understanding

 Students understand that shapes can be joined to create new shapes with different properties.

## Procedural Skill & Fluency

 Students draw composite shapes.

Procedural skill & fluency is not a targeted element of rigor for this standard.

#### Application

 Students use shapes to build composite shapes.

Application is not a targeted element of rigor for this standard.

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# LESSON 6-5 Understand Attributes of Solids

## **Learning Targets**

- . I can describe 3-dimensional shapes by the attributes they always have.
- I can recognize that color, size, and direction are non-defining attributes of 3-dimensional shapes.

## Standards • Major A Supporting • Additional

#### Content

O 1.6.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 Practices and Processes

MPP Look for and make use of structure.

MPP Use appropriate tools strategically.

#### Focus

#### Content Objective

 Students describe attributes that define and do not define solids.

#### Language Objectives

- Students use has to describe attributes that define and do not define solids.
- To optimize output, ELs participate in MLRS: Co-Craft Questions and Problems.

#### SEL Objective

 Students discuss the value of hearing different viewpoints and approaches to problem solving.

#### Coherence

#### Previou

- Students analyzed and compared 2- and 3-dimensional shapes (Grade K).
- Students described attributes that define shapes (Unit 6).

#### Now

 Students distinguish between attributes that define solids and those that do not.

#### Next

- Students create a solid from an existing solid (Unit 6).
- Students recognize and draw shapes with specified attributes (Grade 2).

#### Rigor

#### Conceptual Understanding

 Students understand that solid shapes have defining and non-defining attributes.

#### Procedural Skill & Fluency

 Students describe attributes of cubes, cylinders, cones, and rectangular prisms.

Procedural skill & fluency is not a targeted element of rigor for this standard.

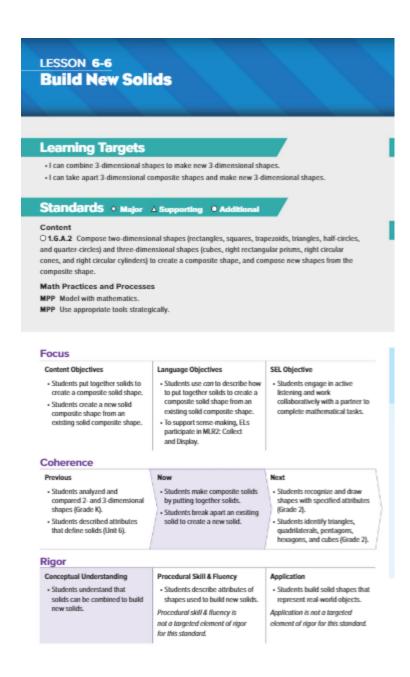
#### Application

 Students solve problems that involve sorting solid shapes.

Application is not a targeted element of rigor for this standard.

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## **Integration of Career Readiness, Life Literacies and Key Skills**

| PFL.9.1.2. FI.1 | Differentiate the various forms of money and how they are used (e.g., coins, bills, checks, debit and credit cards). |
|-----------------|--|
| PFL.9.1.2.CR.1  | Recognize ways to volunteer in the classroom, school and community.  |
| PFL.9.1.2.CR.2  | List ways to give back, including making donations, volunteering, and starting a business.                           |
| PFL.9.1.2.FP.1  | Explain how emotions influence whether a person spends or saves.   |
| PFL.9.1.2.FP.3  | Identify the factors that influence people to spend or save (e.g., commercials, family, culture, society).           |

| PFL.9.1.2.PB.1  | Determine various ways to save and places in the local community that help people save and accumulate money over time.                |
|-----------------|---|
| PFL.9.1.2.PB.2  | Explain why an individual would choose to save money.   |
| TECH.9.4.2.Cl.1 | Demonstrate openness to new ideas and perspectives (e.g., 1.1.2.CR1a, 2.1.2.EH.1, 6.1.2.CivicsCM.2).                                  |
| TECH.9.4.2.CI.2 | Demonstrate originality and inventiveness in work (e.g., 1.3A.2CR1a).   |
| TECH.9.4.2.CT.2 | Identify possible approaches and resources to execute a plan (e.g., 1.2.2.CR1b, 8.2.2.ED.3).  |
| TECH.9.4.2.CT.3 | Use a variety of types of thinking to solve problems (e.g., inductive, deductive).  |
| TECH.9.4.2.DC.3 | Explain how to be safe online and follow safe practices when using the internet (e.g., 8.1.2.NI.3, 8.1.2.NI.4).                       |
| TECH.9.4.2.DC.6 | Identify respectful and responsible ways to communicate in digital environments.  |
| TECH.9.4.2.DC.7 | Describe actions peers can take to positively impact climate change (e.g., 6.3.2.CivicsPD.1).   |
| TECH.9.4.2.TL.2 | Create a document using a word processing application.  |
| TECH.9.4.2.TL.5 | Describe the difference between real and virtual experiences.   |
| TECH.9.4.2.TL.6 | Illustrate and communicate ideas and stories using multiple digital tools (e.g., SL.2.5.).  |
| TECH.9.4.2.TL.7 | Describe the benefits of collaborating with others to complete digital tasks or develop digital artifacts (e.g., W.2.6., 8.2.2.ED.2). |

# **Technology and Design Integration**

| CS.K-2.8.1.2.AP.4  | Break down a task into a sequence of steps.  |
|--------------------|--|
| CS.K-2.8.1.2.AP.5  | Describe a program's sequence of events, goals, and expected outcomes.   |
| CS.K-2.8.1.2.CS.1  | Select and operate computing devices that perform a variety of tasks accurately and quickly based on user needs and preferences. |
| CS.K-2.8.1.2.DA.1  | Collect and present data, including climate change data, in various visual formats.  |
| CS.K-2.8.1.2.DA.3  | Identify and describe patterns in data visualizations.   |
| CS.K-2.8.1.2.DA.4  | Make predictions based on data using charts or graphs.   |
| CS.K-2.8.2.2.ITH.4 | Identify how various tools reduce work and improve daily tasks.  |

## **Interdisciplinary Connections**

| LA.L.1.1  | Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.   |
|-----------|--|
| LA.W.1.5  | With guidance and support from adults, focus on a topic, respond to questions and suggestions from peers and self-reflection, and add details to strengthen writing and ideas as needed. |
| LA.RI.1.1 | Ask and answer questions about key details in a text.  |
| LA.RI.1.2 | Identify the main topic and retell key details of a text.  |
| LA.RI.1.3 | Describe the connection between two individuals, events, ideas, or pieces of information in a text.  |
| LA.RI.1.4 | Ask and answer questions to help determine or clarify the meaning of words and phrases in a text.  |

| LA.RI.1.5  | Know and use various text features (e.g., headings, tables of contents, glossaries, electronic menus, icons) to locate key facts or information in a text. |
|------------|--|
| LA.RI.1.6  | Distinguish between information provided by pictures or other illustrations and information provided by the words in a text.                               |
| LA.RI.1.7  | Use the illustrations and details in a text to describe its key ideas.   |
| LA.RI.1.8  | Identify the reasons an author gives to support points in a text and explain the application of this information with prompting as needed.                 |
| LA.RI.1.9  | Identify basic similarities in and differences between two texts on the same topic (e.g., in illustrations, descriptions, or procedures).                  |
| LA.RI.1.10 | With prompting and support, read informational texts at grade level text complexity or above.  |
| LA.SL.1.1  | Participate in collaborative conversations with diverse partners about grade 1 topics and texts with peers and adults in small and larger groups.          |

## **Differentiation**

- Understand that gifted students, just like all students, come to school to learn and be challenged.
- Pre-assess your students. Find out their areas of strength as well as those areas you may need to address before students move on.
- Consider grouping gifted students together for at least part of the school day.
- Plan for differentiation. Consider pre-assessments, extension activities, and compacting the curriculum.
- Use phrases like "You've shown you don't need more practice" or "You need more practice" instead of words like "qualify" or "eligible" when referring to extension work.
- Encourage high-ability students to take on challenges. Because they're often used to getting good grades, gifted students may be risk averse.

## • Definitions of Differentiation Components:

- Content the specific information that is to be taught in the lesson/unit/course of instruction.
- o Process how the student will acquire the content information.
- o Product how the student will demonstrate understanding of the content.
- Learning Environment the environment where learning is taking place including physical location and/or student grouping

## Differentiation occurring in this unit:

Exit Ticket: Use Data to Inform Differentiation

Every lesson closes with an Exit Ticket. Differentiation recommendations reside in the Teacher Edition to make the Exit Ticket data actionable.

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## **Modifications and Accommodations**

## **Modifications and Accommodations used in this unit:**

## **Benchmark Assessments**

**Benchmark Assessments** are given periodically (e.g., at the end of every quarter or as frequently as once per month) throughout a school year to establish baseline achievement data and measure progress toward a standard or set of academic standards and goals.

## **Schoolwide Benchmark assessments:**

Aimsweb benchmarks 3X a year

Linkit Benchmarks 3X a year

DRA

## Additional Benchmarks used in this unit:

Reveal Unit assessments

### **Formative Assessments**

Assessment allows both instructor and student to monitor progress towards achieving learning objectives, and can be approached in a variety of ways. **Formative assessment** refers to tools that identify misconceptions, struggles, and learning gaps along the way and assess how to close those gaps. It includes effective tools for helping to shape learning, and can even bolster students' abilities to take ownership of their learning when they understand that the goal is to improve learning, not apply final marks (Trumbull and Lash, 2013). It can include students assessing themselves, peers, or even the instructor, through writing, quizzes, conversation, and more. In short, formative assessment occurs throughout a class or course, and seeks to improve student achievement of learning objectives through approaches that can support specific student needs (Theal and Franklin, 2010, p. 151).

## Formative Assessments used in this unit:

Teacher observation

Checklists

Questioning and Discussion

Quizzes

## **Summative Assessments**

**summative assessments** evaluate student learning, knowledge, proficiency, or success at the conclusion of an instructional period, like a unit, course, or program. Summative assessments are almost always formally graded and often heavily weighted (though they do not need to be). Summative assessment can be used to great effect in conjunction and alignment with formative assessment, and instructors can consider a variety of ways to combine these approaches.

## **Summative assessments for this unit:**

End of Unit assessments

## **Instructional Materials**

See above

MA.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.

MA.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.

## **Standards**