## Model Curricula Alignment Template for Mathematics

## Resource Name: Imagine Learning Illustrative Mathematics Grade K



|  |  | Grade K, Unit 7, Lesson 11: Compare and Sort Solid Shapes |  |
| :---: | :---: | :---: | :---: |
| Counting and Matching Numerals 11-20 |  |  |  |
|  | K.CC.A. 2 | Grade K, Unit 4, Lesson 14: Expressions and Story Problems | 11 Lessons |
|  |  | Grade K, Unit 5, Lesson 4: Find All the Ways |  |
|  | K.CC.A. 3 | Grade K, Unit 2, Lesson 12: Connect Quantities and Numbers | 29 Lessons |
|  |  | Grade K, Unit 2, Lesson 20: Represent and Compare Numbers |  |
|  | K.CC.B. 5 | Grade K, Unit 2, Lesson 8: Comparing Matching Images | 48 Lessons |
|  |  | Grade K, Unit 2, Lesson 14: Count Out Objects |  |
|  | K.CC.C. 7 | Grade K, Unit 2, Lesson 19: Compare Numbers and Images | 6 Lessons |
|  |  | Grade K, Unit 2, Lesson 21: Compare Numbers |  |
|  | K.CC.A. 1 | Grade K, Unit 4, Lesson 3: Count 2 Groups of Scattered Images | 23 Lessons |
|  |  | Grade K, Unit 6, Lesson 1: Count Larger Collections of Objects |  |
|  | K.CC.B. 4 | Grade K, Unit 6, Lesson 2: Keep Track of Objects | 19 Lessons |
|  |  | Grade K, Unit 6, Lesson 7: Make Numbers with 10 and Some More (Part 1) |  |
|  | K.CC.C. 6 | Grade K, Unit 2, Lesson 10: Find More or Fewer | 20 Lessons |
|  |  | Grade K, Unit 2, Lesson 17: Order Tower and Numbers |  |

## Addition \& Subtraction within 10



|  | K.CC.B. 5 | Grade K, Unit 2, Lesson 3: Groups that Look Very Different | 48 Lessons |
| :---: | :---: | :---: | :---: |
|  |  | Grade K, Unit 6, Lesson 5: How Many Fingers? How Many Dots? |  |
| Teen Numbers (11-19) and Counting in 100 |  |  |  |
|  | K.NBT.A. 1 | Grade K, Unit 6, Lesson 7: Make Numbers with 10 and Some More (Part 1) <br> Grade K, Unit 6, Lesson 8: Make Numbers with 10 and Some More (Part 2) | 10 Lessons |
|  | K.OA.A. 1 | Grade K, Unit 6, Lesson 9: Expressions and Equations | 23 Lessons |
|  |  | Grade K, Unit 6, Lesson 13: Fingerprint Animals |  |
|  | K.CC.A. 1 | Grade K, Unit 5, Lesson 9: All of the Story Problems | 23 Lessons |
|  | K.CC.A. 2 | Grade K, Unit 6, Lesson 11: Count Images (Part 1) | 11 Lessons |
|  |  | Grade K, Unit 6, Lesson 13: Fingerprint Animals |  |
|  | K.CC.B. 4 | Grade K, Unit 6, Lesson 1: Count Larger Collections of Objects | 19 Lessons |
|  |  | Grade K, Unit 6, Lesson 9: Expressions and Equations |  |
|  | K.CC.B. 5 | Grade K, Unit 6, Lesson 6: Fingers and 10-Frames | 48 Lessons |
|  |  | Grade K, Unit 6, Lesson 7: Make Numbers with 10 and Some More (Part 1) |  |

## Identify and Describe 2-D and 3-D Shapes

|  | K.G.A. 1 | Grade K, Unit 3, Lesson 2: Match Shapes | 10 Lessons |
| :---: | :---: | :---: | :---: |
|  |  | Grade K, Unit 3, Lesson 13: Describe and Match Shapes |  |
|  | K.G.A. 2 | Grade K, Unit 3, Lesson 9: Shapes are Everywhere | 7 Lessons |
|  |  | Grade K, Unit 7, Lesson 10: Identify and Describe Solid Shapes |  |
|  | K.G.A. 3 | Grade K, Unit 7, Lesson 7: Flat and Solid Shapes | 1 Lesson |
|  | K.G.B. 5 | Grade K, Unit 3, Lesson 7: Build with Straws | 10 Lessons |
|  |  | Grade K, Unit 7, Lesson 12: Build Solid Shapes |  |
|  | K.MD.B. 3 | Grade K, Unit 7, Lesson 11: Compare and Sort Solid Shapes | 6 Lessons |
|  |  | Grade K, Unit 3, Lesson 4: Describe, Compare and Sort Shapes |  |
| Compare, Analyze and Compose 2-D and 3-D Shapes |  |  |  |
|  | K.G.B. 4 | Grade K, Unit 3, Lesson 6: Rectangles and Squares | 12 Lessons |
|  |  | Grade K, Unit 4, Lesson 5: Circles and Triangles |  |
|  | K.G.B. 5 | Grade K, Unit 7, Lesson 13: Describe Solid Shapes Around Us | 10 Lessons |
|  |  | Grade K, Unit 7, Lesson 16: Represent the Classroom with Shapes |  |
|  | K.G.B. 6 | Grade K, Unit 7, Lesson 3: Questions and Stories About Shapes | 11 Lessons |


|  |  | Grade K, Unit 7, Lesson 15: Build and Count with Solid Shapes |  |
| :---: | :---: | :---: | :---: |
|  | K.MD.A. 2 | Grade K, Unit 7, Lesson 8: Compare Weight | 3 Lessons |
|  |  | Grade K, Unit 7, Lesson 9: Compare Capacity |  |
|  | K.G.A. 1 | Grade K, Unit 3, Lesson 14: Shapes in Art | 10 Lessons |
|  |  | Grade K, Unit 3, Lesson 4: Describe, Compare and Sort Shapes |  |
|  | K.G.A. 2 | Grade K, Unit 3, Lesson 15: Animal Shape Stamp Art | 7 Lessons |
|  |  | Grade K, Unit 7, Lesson 10: Identify and Describe Solid Shapes |  |
|  | K.G.A. 3 | Grade K, Unit 7, Lesson 7: Flat and Solid Shapes | 1 Lesson |
|  |  |  |  |




|  |  | Explain how they counted to a partner |  |
| :---: | :---: | :---: | :---: |
|  | Lesson 16 | Count collections of objects |  |
|  |  | Represent a collection of objects |  |
|  | Lesson 17 - Optional | Answer "how many" questions |  |
|  |  | Count collections of objects |  |
| Unit 2: Numbers 1-10 |  |  | 23-24 Days of Instruction -- 5 Weeks |
|  | Count and Compare Groups of Objects |  |  |
|  | Lesson 1 | Recognize and name groups of 1-10 fingers without counting |  |
|  |  | Show the number of fingers for a spoken number name |  |
|  | Lesson 2 | Count groups of up to 10 objects |  |
|  |  | Understand that the arrangement of objects does not change the number of objects |  |
|  | Lesson 3 | Compare groups of up to 10 objects |  |
|  |  | Identify and create groups that have more or fewer with very different quantities |  |
|  | Lesson 4 | Identify groups that have more, fewer, or the same number of objects than another group |  |
|  | Lesson 5 | Make groups that have more, fewer, or the same number of objects than another group |  |
|  | Lesson 6 | Compare groups of up to 10 objects |  |
|  |  | Use "more", "fewer", and "the same number" to describe comparisons |  |


| Count and Compare Groups of Images |  |
| :---: | :---: |
| Lesson 7 | Count organized groups of up to 10 images |
|  | Understand that the order counted does not change the number of images |
| Lesson 8 | Count and compare groups of up to 10 images |
|  | Identify groups that have more or fewer images than a given group |
| Lesson 9 | Count and compare groups of up to 10 images |
|  | Identify groups that have more, fewer, or the same number of images as a given group |
| Lesson 10 | Count and compare groups of up to 10 images |
|  | Use "more", "fewer", and "the same number" to describe comparisons |
| Lesson 11 | Create groups that have more, fewer, or the same number of images as a given group |
|  | Use "more", "fewer", and "the same number" to describe comparisons |
| Connect Quantities and Numbers |  |
| Lesson 12 | Match spoken and written numbers and groups of objects |
| Lesson 13 | Count to answer "how many" questions about images presented in lines, arrays, circles, on fingers, and on 5-frames |
|  | Match written numbers and groups of images |
| Lesson 14 | Given a written number, count out a group of objects |
| Lesson 15 | Given a written number, draw a picture with that number of images in it |
| Lesson 16 | Write numbers 1-10 to represent a quantity |
| Compare Numbers |  |
| Lesson 17 | Order numbers from 1-10 |
| Lesson 18 | Identify one more and one less than a given number |
| Lesson 19 | Compare groups of images and numbers 1-10 |


|  | Lesson 20 | Represent and compare numbers 1-10 |  |
| :---: | :---: | :---: | :---: |
|  | Lesson 21 | Compare numbers 1-10 |  |
|  | Lesson 22 - Optional | Compare groups of images and numbers 1-10 |  |
|  |  | Connect quantities with spoken number words and written numbers |  |
|  |  | Write numbers 1-10 to represent a quantity |  |
| Unit 3: Flat Shapes All Around Us |  |  | 16-17 Days of Instruction -- 4 Weeks |
|  | Exploring Shapes in Our Environment |  |  |
|  | Lesson 1 | Use informal language to describe shapes |  |
|  | Lesson 2 | Identify shapes that are the same |  |
|  | Lesson 3 | Use informal language to describe and compare shapes and their attributes |  |
|  |  | Sort shapes into groups |  |
|  | Lesson 4 | Use informal language to describe and compare shapes and their attributes |  |
|  | Lesson 5 | Identify, describe, and compare circles and triangles |  |
|  | Lesson 6 | Compare the lengths of two shapes |  |
|  | Lesson 6 | Identify, describe, and compare rectangles and squares |  |
|  | Lesson 7 | Build shapes from components and name the shapes |  |
|  | Lesson 7 | Compare the lengths of 2 objects, by lining up the endpoints |  |
|  |  | Draw shapes |  |
|  | Lesson 8 | Name shapes and use informal language to describe shapes and their attributes |  |
|  | Lesson 9 | Name shapes and use informal language to describe attributes of shapes in the environment |  |


|  | Making Shapes |  |  |
| :---: | :---: | :---: | :---: |
|  | Lesson 10 | Put shapes together to form larger shapes |  |
|  | Lesson 11 | Identify shapes that are the same, regardless of orientation or size |  |
|  | Lesson 12 | Put shapes together in multiple ways to form larger shapes |  |
|  | Lesson 13 | Describe the location of shapes using positional words |  |
|  |  | Put shapes together to form larger shapes |  |
|  | Lesson 14 | Describe shapes and the location of shapes |  |
|  | Lesson 14 | Put shapes together to form larger shapes |  |
|  | Lesson 15 - Optional | Put shapes together to form larger shapes |  |
| Unit 4: Unders | ding Addition and Subt | ction | 18-20 Days of |
|  | Count to Add and Subtra |  | Instruction -- 4 Weeks |
|  | Lesson 1 | Count to find the total number of objects given 2 groups of objects, up to 10 |  |
|  | Lesson 2 | Count to find the total number of images given two groups of organized images, up to 10 |  |
|  | Lesson 3 | Count to find the total number of images given two groups of organized or scattered images, up to 10 |  |
|  | Lesson 4 | Use objects to show the action of addition |  |
|  | Lesson 5 | Use objects to show the action of subtraction |  |
|  | Represent and Solve Stor | Problems |  |
|  | Lesson 6 | Act out a story |  |
|  | Lesson 6 | Tell a story based on a picture |  |
|  | Lesson 7 | Represent addition and subtraction stories with objects |  |
|  | Lesson 8 | Represent and solve Add To, Result Unknown and Take From, Result Unknown story problems in a way that makes sense to them |  |


|  | Lesson 9 | Solve Add To, Result Unknown and Take From, Result Unknown story problems, including problems with a result of 0 |  |
| :---: | :---: | :---: | :---: |
|  |  | Compare drawings that represent story problems |  |
|  | Lesson 10 | Solve Add To, Result Unknown and Take From, Result Unknown story problems |  |
|  |  | Create drawings that represent story problems |  |
|  | Lesson 11 | Solve Add To, Result Unknown and Take From, Result Unknown story problems |  |
|  |  | Compare addition and subtraction story problems |  |
|  | Lesson 12 | Solve Add To, Result Unknown and Take From, Result Unknown story problems |  |
|  | Lesson 13 - Optional | Create an addition or subtraction story problem |  |
|  | Addition and Subtraction | xpressions |  |
|  | Lesson 14 | Interpret expressions in relation to story problems |  |
|  | Lesson 15 | Interpret expressions in relation to drawings |  |
|  | Lesson 16 | Find the value of addition and subtraction expressions |  |
|  |  | Understand that adding 0 results in the same number |  |
|  | Lesson 17 | Understand that adding 1 results in the next number in the count sequence |  |
|  |  | Create a story problem that matches a given expression |  |
|  | Lesson 18 - Optional | Fill in an expression to match a story problem |  |
| Unit 5: Composi | ing and Decomposing Num | bers to 10 | 15-17 Days of |
|  | Make and Break Apart Num | mbers to 9 | Instruction -- 4 Weeks |
|  |  | Compose and decompose numbers up to 9 |  |
|  | Lesson 1 | Understand that numbers can be decomposed into parts in different ways |  |


|  | Lesson 2 | Compose and decompose numbers up to 9 |  |
| :---: | :---: | :---: | :---: |
|  | Lesson 3 | Compose and decompose numbers up to 9 |  |
|  |  | Compose and decompose numbers up to 9 |  |
|  |  | Find all the ways to decompose a number |  |
|  | More Types of Story Prob |  |  |
|  | Lesson 5 | Solve Put Together, Total Unknown story problems |  |
|  | Lesson 6 | Make sense of Put Together/Take Apart, Both Addends Unknown story problems |  |
|  | Lesson 7 | Solve Put Together/Take Apart, Both Addends Unknown story problems |  |
|  | Lesson 8 | Find more than one solution to a Put Together/Take Apart, Both Addends Unknown story problem |  |
|  | Lesson 9 | Solve addition and subtraction story problems |  |
|  | Make and Break Apart 10 |  |  |
|  | Lesson 10 | Recognize a 10-frame as being composed of two 5-frames |  |
|  | Lesson 11 | Match equations to compositions and decompositions of 10 |  |
|  |  | Find the number that makes 10 when added to a given number |  |
|  |  | Match equations to compositions and decompositions of 10 |  |
|  |  | Fill in equations to represent compositions and decompositions of 10 |  |
|  |  | Find the number that makes 10 when added to a given number |  |
|  | Lesson 14 | Find the number that makes 10 when added to a given number |  |
|  | Lesson 15 - Optional | Solve addition and subtraction story problems |  |
| Unit 6: Number | s 0-20 |  | 13-15 Days of |
|  | Count Groups of 11-20 |  | on -- 3 Weeks |
|  | Lesson 1 | Answer "how many" questions about groups of up to 20 objects |  |



| Unit 7: Solid Shapes All Around Us |  |  | 18 Days of Instruction -- 4 Weeks |
| :---: | :---: | :---: | :---: |
|  | Compose and Count with Flat Shapes |  |  |
|  | Lesson 1 | Count to answer "how many" questions about groups of up to 20 shapes and represent the quantity with a number |  |
|  | Lesson 2 | Compare the number of objects in groups of up to 10 shapes |  |
|  | Lesson 3 | Tell and solve addition or subtraction story problems involving shapes |  |
|  | Lesson 4 | Match addition equations to shapes with two kinds of pattern blocks |  |
|  |  | Match equations to story problems |  |
|  |  | Solve story problems involving shapes |  |
|  |  | Compose and decompose 10 in more than one way |  |
|  | Lesson 6 | Solve Put Together/Take Apart, Both Addends Unknown story problems involving shapes |  |
|  | Describe, Compare, | eate Solid Shapes |  |
|  | Lesson 7 | Distinguish between flat and solid shapes |  |
|  | Lesson 8 | Compare the weights of two objects |  |
|  | Lesson 9 | Compare the capacities of two objects |  |
|  | Lesson 10 | Use their own language to describe solid shapes |  |
|  | Lesson 11 | Use their own language to describe and compare solid shapes |  |
|  | Lesson 12 | Build solid shapes |  |
|  | Lesson 13 | Recognize, name, describe, and build solid shapes in the environment |  |
|  | Lesson 14 | Compose solid shapes to build new shapes |  |
|  |  | Compose solid shapes to build new shapes |  |
|  | Lesson 15 | Count to answer "how many" questions about groups of up to 20 objects |  |


|  | Lesson 16 | Compose solid shapes to represent the environment |  |
| :---: | :---: | :---: | :---: |
| Unit 8: Putting It All Together |  |  | 17-23 Days of Instruction -- 5 Weeks |
|  | Counting and Comparing |  |  |
|  | Lesson 1 | Sort, count, and compare groups of up to 20 objects |  |
|  | Lesson 2 - Optional | Count and compare groups of up to 20 objects |  |
|  | Lesson 3 | Solve Add To, Result Unknown and Take From, Result Unknown story problems |  |
|  |  | Use knowledge of the count sequence to add and subtract one and determine one more and one less |  |
|  | Lesson 4 - Optional | Count out a group of up to 20 objects |  |
|  |  | Use knowledge of the count sequence to add and subtract one and determine one more and one less |  |
|  | Lesson 5 - Optional | Order numbers 1-20 |  |
|  |  | Use knowledge of the count sequence to add and subtract 1 and determine one more and one less |  |
|  | Math in Our School |  |  |
|  | Lesson 6 | Answer mathematical questions about the community |  |
|  |  | Identify number and quantity in the environment |  |
|  |  | Represent and write numbers to 20 |  |
|  | Lesson 7 | Represent and write numbers to 20 |  |
|  | Lesson 8 | Answer mathematical questions about their community |  |
|  | Lesson 9 | Ask and answer mathematical questions about the community |  |
|  | Lesson 10 | Tell story problems about their community |  |
|  | Lesson 11 | Solve story problems about their community |  |
|  | Fluency within 5 |  |  |
|  | Lesson 12 | Recognize compositions and decompositions of numbers to 5 |  |



## Supports of Diversity, Equity and Inclusion

Please provide any information relative to supporting culturally responsive instruction, multi-language learners, and students with disabilities

## Review Site Information:

URL: review-ct.ilclassroom.com
Username: CT@example.com
Password: teacher

## Culturally Responsive Instruction:

Illustrative Mathematics includes culturally relevant materials and culturally responsive teaching and instructional practices. Materials are inclusive of a variety of cultures and ethnicities and are free from bias in the portrayal of ethnic groups, gender, age, class, cultures, religions, and people with disabilities.
We address racial, cultural, and religious bias in the following ways:

- The materials contain racial/ethnic balance in the main characters and illustrations.
- Minorities are represented as central figures in text and illustrations.
- Minority figures reflect qualities such as leadership, intelligence, imagination, and courage.
- The materials provide an opportunity for a variety of racial, ethnic, and cultural perspectives.
- The vocabulary or depiction of racism is avoided (i.e., insulting overtones).
- Race/culture stereotyping language is avoided.
- Biographical or historical content includes minority figures and their discoveries and contributions to society.


## Multi-Language Learners:

In a problem-based mathematics classroom, sense-making and language are interwoven. Mathematics classrooms are language-rich, and therefore language demanding learning environments for every student. The linguistic demands of doing mathematics include reading, writing, speaking, listening, conversing, and representing (Aguirre \& Bunch, 2012). Students are expected to say or write mathematical explanations, state assumptions, make conjectures, construct mathematical arguments, and listen to and respond to the ideas of others. In an effort to advance the mathematics and language learning of all students, the materials purposefully engage students in sense-making and using language to negotiate meaning with their peers. To support students who are learning English in their development of language, this curriculum includes instruction devoted to fostering language development alongside mathematics learning, fostering language-rich environments where there is space for all students to participate.

This interwoven approach is grounded in four design principles that promote mathematical language use and development:

Principle 1. Support sense-making: Scaffold tasks and amplify language so students can make their own meaning. Students need multiple opportunities to talk about their mathematical thinking, negotiate meaning with others, and collaboratively solve problems with targeted guidance from the teacher. Teachers can make language more accessible by amplifying rather than simplifying speech or text. Simplifying includes avoiding the use of challenging words or phrases. Amplifying means anticipating where students might need support in understanding concepts or mathematical terms and providing multiple ways to access them.

Principle 2. Optimize output: Strengthen opportunities for students to describe their mathematical thinking to others, orally, visually, and in writing. All students benefit from repeated, strategically optimized, and supported opportunities to articulate mathematical ideas into linguistic expression, to communicate their ideas to others. Opportunities for students to produce output should be strategically optimized for both (a) important concepts of the unit or course, and (b) important disciplinary language functions (for example, explaining reasoning, critiquing the reasoning of others, making generalizations, and comparing approaches and representations).

Principle 3. Cultivate conversation: Strengthen opportunities for constructive mathematical conversations. Conversations are back-and-forth interactions with multiple turns that build up ideas about math. Conversations act as scaffolds for students developing mathematical language because they provide opportunities to simultaneously make meaning, communicate that meaning, and refine the way content understandings are communicated. During effective discussions, students pose and answer questions, clarify what is being asked and what is happening in a problem, build common understandings, and share experiences relevant to the topic. Meaningful conversations depend on the teacher using activities and routines as opportunities to build a classroom culture that motivates and values efforts to communicate.

Principle 4. Maximize meta-awareness: Strengthen the meta-connections and distinctions between mathematical ideas, reasoning, and language. Meta-awareness, consciously thinking about one's own thought processes or language use, develops when students consider how to improve their communication and reasoning about mathematical concepts. When students are using language in ways that are purposeful and meaningful for themselves, in their efforts to understand-and be understood by-each other, they are motivated to attend to ways in which language can be both clarified and clarifying. Students learning English benefit from being aware of how language choices are related to the purpose of the task and the intended audience, especially if oral or written work is required. Both metacognitive and metalinguistic awareness are powerful tools to help students self-regulate their academic learning and language acquisition.

These design principles and related mathematical language routines, described below, ensure language development is an integral part of planning and delivering instruction. Moreover, they work together to guide teachers to amplify the most important language that students are expected to know and use in each unit.

## Mathematical Language Routines

Mathematical Language Routines (MLRs) are instructional routines that provide structured but adaptable formats for amplifying, assessing, and developing students' language. The MLRs included in this curriculum were selected because they simultaneously support students' learning of mathematical practices, content, and language. They are particularly well-suited to meet the needs of linguistically and culturally diverse students who are learning mathematics while simultaneously acquiring English. These routines are flexible and can be adapted to support students at all stages of language development in using and improving their English and disciplinary language use.

These routines are included in the Curriculum Guide and noted below:

- MLR 1: Stronger and Clearer Each Time
- MLR 2: Collect and Display
- MLR 3: Clarify, Critique, Correct
- MLR 4: Information Gap
- MLR 5: Co-Craft Questions
- MLR 6: Three Reads
- MLR 7: Compare and Connect
- MLR 8: Discussion Supports

MLRs are included in select activities in each unit to provide all students with explicit opportunities to develop mathematical and academic language proficiency. These "embedded" MLRs are described in the teacher notes for the lessons in which they appear.

Each lesson also includes optional, suggested MLRs that can be used to support access and language development for English learners, based on the language demands students will encounter. They are described in the activity narrative, under the heading "Access for English Learners." Teachers can use the suggested MLRs and language strategies as appropriate to provide students with access to an activity without reducing the mathematical demand of the task. When using these supports, teachers should take into
account the language demands of the specific activity and the language needed to engage the content more broadly, in relation to their students' current ways of using language to communicate ideas as well as their students' English language proficiency. Using these supports can help maintain student engagement in mathematical discourse and ensure that struggle remains productive. All of the supports are designed to be used as needed, and use should fade out as students develop understanding and fluency with the English language.

In addition to the comprehensive pedagogical design of the program, Spanish translations are available for the educator components, including teacher slides, and the student components, including the student workbook (print version).

Materials are also available in Spanish as follows:

| K-5 | 6-8 | AGA |
| :---: | :---: | :---: |
| - Print: Student Workbooks <br> - eBook/PDF: Student Workbooks, Teacher Resource Pack, Teacher Guide (student facing text only, teacher text in English) <br> - Spanish Lesson Presentations <br> Other Materials (no student responses) <br> - Task Statements (PDF) <br> - Cool-Down (PDF) <br> - Practice Problems (PDF) <br> - Unit Assessments (PDF and digital) <br> - Section Checkpoints (PDF) <br> - Family Support Material (PDF) <br> - Center Materials (PDF) <br> - Blackline Masters (PDF) <br> - Glossary entries | 6-8 Courses Only (Not Accelerated) <br> - Print: Student Workbooks <br> - eBook/PDF: Student Workbooks <br> Other Materials (no student responses) <br> - Task Statements (PDF) <br> - Cool-Down (PDF) <br> - Practice Problems (PDF) <br> - Unit Assessments, Option B (PDF) <br> - Blackline Masters (PDF) <br> - Family Support Material (PDF) <br> - Glossary entries | Algebra 1 Only <br> - eBook/PDF: Student Workbooks <br> - Print: Student Workbooks <br> - Available for BTS 2023 <br> Other Materials (no student responses) <br> - Task Statements (PDF) <br> - Cool-Down (PDF) <br> - Practice Problems (PDF) <br> - Unit Assessments (PDF) <br> - Modeling Prompts <br> - Blackline Masters (PDF) <br> - Family Support Material (PDF) <br> - Glossary entries |

## Exceptional Learners:

Imagine Learning Illustrative Mathematics materials empower all students with activities that capitalize on their existing strengths and abilities to ensure that all learners can participate meaningfully in rigorous mathematical content. Lessons support a flexible approach to instruction and provide teachers with options for additional support to address the needs of a diverse group of students, positioning all learners as competent, valued contributors. When planning to support access, teachers should consider the strengths and needs of their particular students.

Each lesson is carefully designed to maximize engagement and accessibility for all students. Purposeful design elements that support access for all learners, but that are especially helpful for students with disabilities, include:

## Lesson Structures are Consistent

The structure of every lesson is the same: warm-up, activities, synthesis, cool-down. By keeping the components of each lesson similar from day to day, the flow of work in class becomes predictable for students. This reduces cognitive demand and enables students to focus on the mathematics at hand rather than the mechanics of the lesson.

## Concepts Develop from Concrete to Abstract

Mathematical concepts are introduced simply, concretely, and repeatedly, with complexity and abstraction developing over time. Students begin with concrete examples, and transition to diagrams and tables before relying exclusively on symbols to represent the mathematics they encounter.

## Individual to Pair, or Small Group to Whole Class Progression

Providing students with time to think through a situation or question independently before engaging with others allows students to carry the weight of learning, with support arriving just in time from the community of learners. This progression allows students to first activate what they already know, and continue to build from this base with others.

## Opportunities to Apply Mathematics to Real-World Contexts

Giving students opportunities to apply the mathematics they learn clarifies and deepens their understanding of core math concepts and skills and provides motivation and support. Mathematical modeling is a powerful activity for all students, but especially students with disabilities. Each unit has a culminating activity designed to explore, integrate, and apply all the big ideas of the unit. Centering instruction on these contextual situations can provide students with disabilities an anchor on which to base their mathematical understandings.

Supplemental instructional strategies that can be used to increase access, reduce barriers and maximize learning are included in each lesson, listed in the activity narratives under "Access for Students with Disabilities." Each support is aligned to the Universal Design for Learning Guidelines and based on one of the three principles of UDL, to provide alternative means of engagement, representation, or action and expression. These supports provide teachers with additional ways to adjust the learning environment so that students can access activities, engage in content, and communicate their understanding. Supports are tagged with the areas of cognitive functioning they are designed to address to help teachers identify and select appropriate supports for their students. Designed to facilitate access to Tier 1 instruction by capitalizing on student strengths to address challenges related to cognitive functions or
disabilities, these strategies and supports are appropriate for any students who need additional support to access rigorous, gradelevel content.

Teachers are encouraged to use what they know about their students' IEPs, strengths and challenges, and a UDL approach to ensure access.

There are embedded supports for exceptional students in most lessons. Teachers will find these in the Teaching Notes section. As of June 2020, Illustrative Mathematics 6-8 student facing materials meet Section 508 compliance standards, meaning that students can use assistive technology to navigate the site. Illustrative Mathematics K-5 digital materials were added during the 21-22 School Year and are 508 compliant as well. Outlined in the Curriculum Guide, there are features, supports, and strategies available.


The curriculum authors drew heavily on the UDL framework in the design of these materials. A number one design principle of the curriculum is "Access for all." This foundational principle draws from the UDL framework and shapes the instructional goals, recommended practices, lesson plans, and assessments to support a flexible approach to instruction, ensuring all students have an equitable opportunity to learn.

Imagine Learning software is browser-based so it will work with any browser-based text-to-speech tools. Fonts can be adjusted in type and size. Non-text navigation elements can be adjusted in size. Math equation editing is available on assessment items and practice problems.

Imagine Learning can provide a NIMAS-compatible version of Illustrative Mathematics content. These files may be used for the production of alternate formats as permitted under the law for students with disabilities.

