Connecticut Mathematics Model Curricula Alignment

Resource Name: i-Ready Classroom Mathematics

| Alignment Grade 4 | | | | |
|--|---|--|--|---|
| Model Unit Name | Model Unit Standards | Resource Unit(s) Number | Resources Lessons | Pacing |
| This is the title of the unit in the model curricula | These are the standards addressed in the unit | This is the unit(s) that aligns with the model unit from the resource | These are the lessons from the identified units that align to the standards within the model unit | This is the expected number of days for instruction |
| | | | <u>, </u> | |
| Understanding and Using Place Value to Multiply and Divide | 4.NBT.A.1, 4.NBT.A.2, 4.NBT.A.3, 4.NBT.B.5, 4.NBT.B.6 | Unit 1 Whole Numbers: Place Value, Comparison, Addition, and Subtraction Unit 3 Multi-Digit Operations and Measurement: Multiplication, Division, Perimeter and Area | Lesson 1: 4.NBT.A.1, 4.NBT.A.2 Lesson 2: 4.NBT.A.3 Lesson 11: 4.NBT.B.5 Lesson 12: 4.NBT.B.5 Lesson 14: 4.NBT.B.6 Lesson 15: 4.NBT.B.6 Unit 3 Math in Action: Multiple and Divide Multi- Digit Numbers: 3.NBT.B.5, 4.NBT.B.6 | 26 days |
| Factors and Multiples | 4.OA.A.1, 4.OA.B.4, 4.OA.C.5 | Unit 2 Operations: Multiplication, Division, and Algebraic Thinking | Lesson 6: 4.OA.A.1 Lesson 8: 4.OA.A.4 Lesson 9: 4.OA.C.5 Unit 2 Math in Action: Solve Multiplication Problems: 4.OA.A.1, 4.OA.B.4 | 14 days |
| Multi-Digit Whole Number Computation | 4.NBT.B.4, 4.OA.A.2, 4.OA.A.3 | Unit 1 Whole Numbers: Place Value, Comparison, Addition, and Subtraction Unit 2 Operations: Multiplication, Division, and Algebraic Thinking | Lesson 4: 4.NBT.B.4 Lesson 5: 4.NBT.B.4 Lesson 7: 4.OA.A.2 Lesson 10: 4.OA.A.3 Unit 1 Math in Action: Work with Whole Numbers: 4.NBT.A.2, 4.NBT.A.3 | 17 days |

| Comparing Fractions and | 4.NF.A.1, 4.NF.A.2, 4.NF.C.5, | Unit 4 Fractions, Decimals, | Lesson 17: 4.NF.A.1 | 21 days |
|---|---|--|--|---------|
| Understanding Decimal Notation | 4.NF.C.6, 4.NF.C.7 | and Measurement: Addition, Subtraction, and Multiplication | Lesson 18: 4.NF.A.2 Lesson 25: 4.NF.C.5 Lesson 26: 4.NF.C.6 Lesson 27: 4.NF.C.7 Unit 4 Math in Action: Use Fractions and Decimals: 4.NF.A.1, 4.NF.A.2, 4.NF.C.5, | |
| Building Understanding of Addition, Subtraction and Multiplication of Fractions | 4.NF.B.3, 4.NF.B.4 | Unit 4 Fractions, Decimals, and Measurement: Addition, Subtraction, and Multiplication | 4.NF.C.6, 4.NF.C.7 Lesson 19: 4.NF.B.3 Lesson 20: 4.NF.B.3 Lesson 21: 4.NF.B.3 Lesson 23: 4.NF.B.4 Lesson 24: 4.NF.B.4 | 19 days |
| Solving Problems Involving Measurement and Data | 4.MD.A.1, 4.MD.A.2, 4.MD.A.3, 4.MD.B.4 | Unit 3 Multi-Digit Operations and Measurement: Multiplication, Division, Perimeter and Area Unit 4 Fractions, Decimals, and Measurement: Addition, Subtraction, and Multiplication | Lesson 13: 4.MD.A.1 Lesson 16: 4.MD.A.3 Lesson 22: 4.MD.B.4 Lesson 28: 4.MD.A.2 Lesson 29: 4.MD.A.2 | 25 days |
| Exploring Angles and Angle Measurement | 4.MD.C.5, 4.MD.C.6, 4.MD.C.7 | Unit 5 Geometry and Measurement: Figures, Classification, and Symmetry | Lesson 30: 4.MD.C.5 Lesson 31: 4.MD.C.5, MD.C.6 Lesson 32: 4.MD.C.7 | 14 days |
| Understanding Properties of Two-Dimensional Figures | 4.G.A.1, 4.G.A.2, 4.G.A.3 | Unit 5 Geometry and Measurement: Figures, Classification, and Symmetry | Lesson 30: 4.MD.C.5 Lesson 33: 4.G.A.2 Lesson 34: 4.G.A.3 Unit 5 Math in Action: Classify Shapes and Angles: 4.GA.1, 4.GA.2, 4.GA.3, 4.MD.C.5, 4.MD.C.6, 4.MD.C.7 | 16 days |

Scope and Sequence

If a district uses this resource to implement the state model curriculum for grade 4, the following scope and sequence should be followed to ensure alignment and attention to the progressions of mathematics.

| Order | Unit Number/Title and Lessons | Lesson Objectives | # of days (assume 1 hour of instruction) | Number of weeks |
|-------|---|---|--|-----------------|
| 1. | Unit 3 Multi-Digit Operations and Measurement: Multiplication, Division, Perimeter and Area | Lesson 11: 4.NBT.B.5 Lesson 12: 4.NBT.B.5 Lesson 13: 4.MD.A.1 Lesson 14: 4.NBT.B.6 Lesson 15: 4.NBT.B.6 Lesson 16: 4.MD.A.3 Unit 3 Math in Action: Multiple and Divide Multi- Digit Numbers: 3.NBT.B.5, 4.NBT.B.6 | 26 days | 5 weeks |
| 2. | Unit 2 Operations: Multiplication, Division, and Algebraic Thinking | Lesson 6: 4.OA.A.1 Lesson 7: 4.OA.A.2 Lesson 8: 4.OA.A.4 Lesson 9: 4.OA.C.5 Lesson 10: 4.OA.A.3 Unit 2 Math in Action: Solve Multiplication Problems: 4.OA.A.1, 4.OA.B.4 | 24 days | 5 weeks |
| 3. | Unit 1 Whole Numbers: Place Value, Comparison, Addition, and Subtraction | Lesson 1: 4.NBT.A.1, 4.NBT.A.2 Lesson 2: 4.NBT.A.2 Lesson 3: 4.NBT.A.3 Lesson 4: 4.NBT.B.4 Lesson 5: 4.NBT.B.4 Unit 1 Math in Action: Work with Whole Numbers: 4.NBT.A.2, 4.NBT.A.3 | 25 days | 5 weeks |
| 4. | Unit 4 Fractions, Decimals, and Measurement: Addition, Subtraction, and Multiplication | Lesson 17: 4.NF.A.1 Lesson 18: 4.NF.A.2 Lesson 19: 4.NF.B.3 Lesson 20: 4.NF.B.3 Lesson 21: 4.NF.B.3 Lesson 22: 4.MD.B.4 Lesson 23: 4.NF.B.4 | 55 days | 11 weeks |

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| | | Lesson 24: 4.NF.B.4 | | |
| | | | | |
| | | Lesson 25: 4.NF.C.5 | | |
| | | Lesson 26: 4.NF.C.6 | | |
| | | Lesson 27: 4.NF.C.7 | | |
| | | Lesson 28: 4.MD.A.2 | | |
| | | Lesson 29: 4.MD.A.2 | | |
| | | Unit 4 Math in Action: Use | | |
| | | Fractions and Decimals: | | |
| | | 4.NF.A.1, 4.NF.A.2, 4.NF.C.5, | | |
| | | 4.NF.C.6, 4.NF.C.7 | | |
| 5. | Unit 5 Geometry | Lesson 30: 4.MD.C.5 | 24 days | 5 weeks |
| | Measurement: Figures, | Lesson 31: 4.MD.C.5, MD.C.6 | | |
| | Classification, and Symmetry | Lesson 32: 4.MD.C.7 | | |
| | | Lesson 33: 4.G.A.2 | | |
| | | Lesson 34: 4.G.A.3 | | |
| | | Unit 5 Math in Action: | | |
| | | Classify Shapes and Angles: | | |
| | | 4.GA.1, 4.GA.2, 4.GA.3, | | |
| | | 4.MD.C.5, 4.MD.C.6, | | |
| | | 4.MD.C.7 | | |

Supports of Diversity, Equity and Inclusion

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

Culturally Responsive Features of Program and their Benefits:

- **Select and Sequence:** This support in the TG helps to validate all students' understanding through examination and discussion. It shows that every student's work is worthy and shares authority with students.
- **STEM Stories:** These graphic novel style stories spotlight the lives and STEM contributions of people with diverse backgrounds and provide a real-life instance of the Mathematical Practices in action.
- **Connect to Culture:** Support in the TG and in the presentation slides provides background information and ideas on how to connect with and leverage the diverse background and experiences of all students during instruction to increase student engagement.
- **Protocols for Engagement:** These protocols draw on students' cultural and linguistic backgrounds and behaviors to engage students while affirming and validating their identities.
- **Culturally-diverse problem situations:** Problems that involve a wide range of cultural contexts that reflect students' own experiences and the world around them make mathematics relevant and helps students make better connections to the content.
- **Family Letters:** To help educators form relationships with students' families, the Family Letter can be used as a regular communication letting parents know what students are learning. Available in 11 languages: English, Spanish, Amharic (K-5), Arabic, Korean, Mandarin, Portuguese, Russian, Somali (K-5), Tagalog, and Vietnamese.

• **Unit Flow and Progression Videos:** To support families and alleviate anxiety that some parents feel about supporting their children in mathematics, the Unit Flow and Progression videos provide them with a refresher on the content. Closed captioned in English and Spanish.

English Learner Supports in Program and their Benefits:

- **Try-Discuss-Connect:** English Learners bring a variety of linguistic and cultural assets to the classroom. The Try-Discuss-Connect instructional framework starts with students' background knowledge, experiences, and insights and builds on it to develop understanding and engage ELs in learning.
- **Differentiation | English Learners:** Every session includes differentiated support for a continuum of English proficiency levels. Differentiation suggestions focus on a specific problem so that teachers can scaffold language, as needed, to ensure that ELs access and engage with the mathematics.
- **EL Language Expectations Chart:** These charts provide examples of what ELs can do based on their English language proficiency levels in connection with a learning target. These examples help teachers differentiate instruction to meet the needs of English learners.
- **Cognate Support:** Use this routine as part of the Build Your Vocabulary activity to help students who speak Spanish or other Latin-based languages use their home language as an asset for learning.
- Academic Vocabulary Routine and Build Your Vocabulary activities: Focus on bridging from informal to academic vocabulary.
- Language Routines: The Try-Discuss-Connect framework incorporates research-based language routines (Three Reads, Say It Another Way, Coconstruct Questions, Compare and Connect, etc) to support students as they learn content, develop mathematical practices, and master language. While these routines support English learners, they are designed to be used by all children as they access mathematical concepts and their growing mathematical understanding.
- Multilingual Student Resources: All student-facing resources are available in Spanish and some are also available in other languages.
- **Spanish Teacher Guide:** The TG includes all the Spanish content that students see, along with specific teacher support, trans-adapted in Spanish.
 - **Purple Boxes in TG:** Embedded supports provide prompts in Spanish to help teachers facilitate meaningful discussions.
 - **Math Background:** To support the diverse group of teachers that work with biliteracy/dual language programs, the math background pages are also available in Spanish.

Equity Features/Benefits:

- **Prerequisites Report:** Allows teachers to accelerate learning by using the powerful insights from the Diagnostic Assessment. The practical strategies and teacher tools from the Prerequisites report helps teachers engage students, scaffold instruction, and address unfinished learning to help ensure student success with grade-level standards.
- **Multiple-day Lesson Structure:** Gives students time to dig deeper and refine their understanding and supports differentiation.
- **Try-Discuss-Connect:** By centering instruction on student-generated solutions and meaningful discussions, students make better connections to the mathematics.
 - **Try It:** Students use their prior knowledge, identity, and community experiences to make sense of the problem.
 - **Discuss It:** Partner and whole class discussions place value on students' ideas and contributions.
 - Connect It: Students make connections to strategies and underlying mathematics.
- Balanced Representation of Cultures: Ready Classroom Math strives to help students see themselves in their math textbook, as well as the use of mathematics in familiar, relevant contexts. Through a balanced representation of cultures and groups in multiple settings, occupations, careers, and lifestyles, the program supports equal opportunity without regard for age, color, gender, disability, national origin, race, or religion. The portrayal of individuals and situations are free of biases/stereotypes and in many cases promote an understanding/appreciation of the contributions made by diverse cultures and heritages.

Accessibility Supports

- Accessibility opportunities and expectations are continually evolving. To meet the needs of the students and districts we serve, we engage in ongoing work to evaluate and improve our educational tools and resources. We have developed a systematic approach to accessibility that includes:
 - Web Content Accessibility Guidelines (WCAG) and the Universal Design for Learning (UDL) framework guiding our accessibility efforts
 - An internal team of access and equity, curriculum, assessment, policy, and research experts who are dedicated to finding new ways for our educational tools and resources to be used by a diverse range of learners
 - o A rigorous review process that involves outside accessibility experts to ensure our thinking and approach reflect established and evolving best practices
 - o Guidance and feedback from the school districts and educators we serve.
- i-Ready Classroom Mathematics offers Accessibility Supports (Universal Supports and Designated Supports) and Accommodations for program components such as i-Ready Diagnostic Assessment, Student Bookshelf, Comprehension Checks, and Interactive Practice.