USER MANUAL



Vertical Progression Guides for the Common Core

K–12 English Language Arts (ELA) Arts and Mathematics



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What is Vertical Progression and Why is it Important?

Vertical progression arranges the Standards in an ascending staircase format by grade level and content type. This format allows educators to see the progression of the Standards within a grade level and to develop an in-depth understanding of how the Standards for each year lay the foundation for instruction in the next. Organizing the Standards in this way encourages collaboration among teachers to ensure rigor, align curriculum, and establish learning targets.

What Are Vertical Progression Guides?

Transitioning to the Common Core State Standards is a big undertaking, and teachers are asking:

- What am I supposed to teach?
- When am I supposed to teach it?
- How can I help all of my students learn?

Battelle for Kids worked with educators to create the Common Core Vertical Progression Guides to be a trusted, go-to resource teachers will reference over and over as they implement the new Standards. The Guides display each Standard in a teacher-friendly format for functional use in planning units, lessons, and effective learning activities.

How Are Educators Using the Guides?

Teachers, principals, and curriculum directors across the country are using the guides during professional development and in the classroom. Educators are using the vertical progression guides as a tool to:

- Accomplish curriculum alignment;
- Create student learning objectives (SLOs);
- Interpret student achievement and progress information; and
- Implement formative instructional practices.

Teachers who have been using the Vertical Progression Guides share three key implementation strategies:



Vertical Progression Guides also support educators as they:

- Identify sequential, grade-to-grade, developmental learning progressions for ELA and Mathematics;
- Develop learning experiences that combine literacy and writing with other content areas;
- Vertically align concepts to support formative instructional practices;
- Support Multi-Tier Student Support Systems 1, 2, and 3 and Response to Intervention (RTI); and
- Assist with diagnostic assessments, and analyze results to plan intervention.



and parents

Using the Vertical Progression Guides

The Common Core State Standards are built on the concept of Learning Progression. Vertical Progression allows educators to view multiple grade levels and see how each year's content lays the foundation for the next in an easy-to-interpret staircase format.

English Language Arts (ELA) K–12

Each ELA grade-level Standard derives from one of the College- and Career- Ready (CCR) Anchor Standards, which provide the foundation for learning. Grade-level Standards complement the CCR Anchor Standards. Look for the CCR Anchor Standard at the foundation of each staircase. To start a staircase, look for the green "START HERE" box. Read or "climb" the steps vertically from the Anchor Standard up through Grade 12 at the top.



Mathematics K–8

The Mathematics Common Core Vertical Progression Guide combines domains in a staircase format in 20 topics. Teachers can use these topics to develop units that engage students in learning mathematics. To start a staircase, look for the green "START HERE" box. Read or "climb" the steps vertically from the Grade, Domain, and Standard up.



(1)



and read up

- 2 Mathematical practices (Refer to p. 6 of the K–12 Mathematics guide.)
- 3 Grade—Domain code—Standard number
- 4 Standard descriptions
- 5) Staircases combine domains, as appropriate
- 6) Continue reading up to the page above

K–8 Domain Codes

Counting and Cardinality (CC) Operations and Algebraic Thinking (OA) Numbers and Operations in Base Ten (NBT) Measurement and Data (MD) Geometry (G) Functions (F) Numbers and Fractions (NF) Ratios and Proportional Relationships (RP) The Number System (NS) Expressions and Equations (EE) Statistics and Probability (SP)

Mathematics 9–12

Pathways:

Traditional Algebra 1 (A1), Algebra 2 (A2), Geometry (G), – Integrated Mathematics I (M1), II (M2), and III (M3).



Units in Grades 9–12 outline Traditional and Integrated Pathways, refer to pages 82–95.

- 🔟 Major standards
- Supporting standards
- Additional standards *STEM

Unit 5: Quadratic Functions and Modeling		
Common Core Clusters	Standards aligned with this unit according to CCSS Appendix A	PARCC designated standards for this unit with emphasis indicated by color
Use properties of rational and irrational numbers.	N.RN.3	A
Interpret functions that arise in applications in terms of a context.	F.IF.4,5,6	M
Analyze functions using different representations.	F.IF.7a,b,8a,9	6
Analyze functions using different representations.	F.IF.8b	F.IF.8b assessed in Alg II
Build a function that models a relationship between two quantities.	F.BF.1a	5
Build a function that models a relationship between two quantities.	F.BF.1b	F.BF.1b assessed in Alg II
Build new functions from existing functions.	F.BF.3	A
Build new functions from existing functions.	F.BF.4a	F.BF.4a assessed in Alg II

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Order & Learn More

Order Vertical Progression Guides and learn more about our suite of Common Core resources at www.BattelleforKids.org/CommonCore.



About Battelle for Kids

Battelle for Kids is a national, not-for-profit organization that provides strategic counsel and innovative solutions for today's complex educational-improvement challenges. Our mission-driven team of education, technology, communications, and business professionals specializes in creating strategies that advance the development of human capital, the implementation of strategic measures, practices for improving educator effectiveness, and communication with all stakeholders in schools. At the heart of this work is an unwavering focus on accelerating student growth.

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