

Implementing Career and College Ready Standards in Washington State

Washington state adopted the Common Core Standards for English language arts and mathematics in July 2011; and the Next Generation Science Standards in October 2013. These two sets of "career- and college-ready" learning standards are intentionally built on a progression that prepares students for the future. Washington's State Learning Standards in other subject areas such as social studies, health and fitness, and the arts remain intact and are complementary to the CCSS and NGSS.

This document connects these standards with Washington's vision for basic education and provides background on state timelines, what the standards are, and resources available to support their implementation.

Washington's Basic Education Act and State Learning Goals (1993): A basic education is an evolving program of instruction that is intended to provide students with the opportunity to become responsible and respectful global citizens, to contribute to their economic well-being and that of their families and communities, to explore and understand different perspectives, and to enjoy productive and satisfying lives.

To these ends, the goals of each school district, with the involvement of parents and community members, shall be to provide opportunities for <u>every student</u> to develop the knowledge and skills essential to:

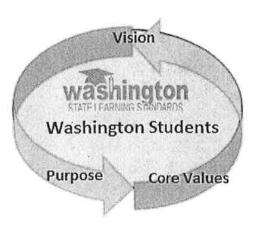
- 1. Read with comprehension, write effectively, and communicate successfully in a variety of ways and settings and with a variety of audiences;
- 2. Know and apply the core concepts and principles of mathematics; social, physical, and life sciences; civics and history, including different cultures and participation in representative government; geography; arts; and health and fitness;
- 3. Think analytically, logically, and creatively, and to integrate technology literacy and fluency as well as different experiences and knowledge to form reasoned judgments and solve problems; and
- 4. Understand the importance of work and finance and how performance, effort, and decisions directly affect future career and educational opportunities.

Our Vision for Implementation: Every student will have access to the Career- and College-Ready (CCR) standards through high quality instruction aligned with the standards every day; and that <u>all teachers</u> are prepared and receive the support they need to implement the standards in their classrooms every da

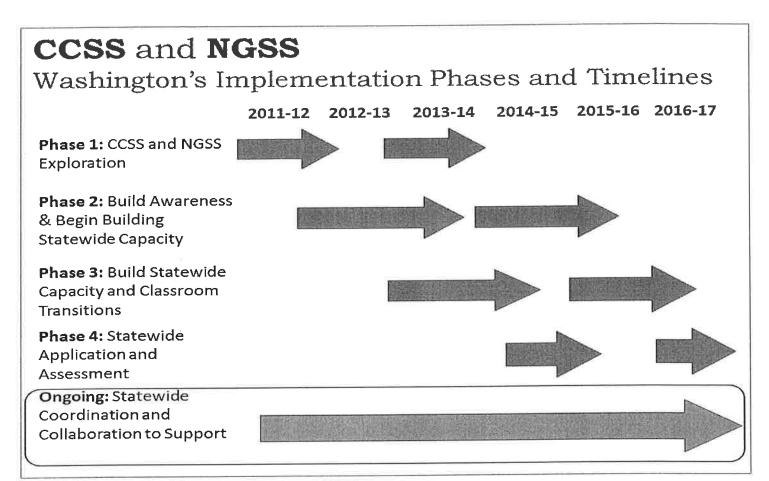
Our Purpose: To develop a <u>statewide system</u> that supports all school districts in their preparation of educators and students to implement CCR standards using a 2-pronged approach focused on:

- The "What": Key Content Shifts
- 2. The "How": System "Remodeling" to support building capacity for <u>sustained professional learning</u> that supports implementation now and <u>be applied to other initiatives</u> in the future.

Our Core Values: This vision can only occur through core values of <u>clarity</u>, <u>consistency</u>, <u>collaboration</u>, <u>coordination</u>, and <u>commitment</u> from <u>classrooms</u>, schools, and communities to the state level.



Washington's Career- and College-Ready (CCR) Standards: Common Core State Standards (CCSS) for English language arts and Mathematics Next Generation Science Standards (NGSS)



Learning Standards/Guidelines

in:

Social Studies

The Arts

Health and Fitness

World Languages

Ed Tech

Environment and Sustainability Education Early Learning and Development, B-Gr.3



Current Standards Continue

Intentional connections will be made <u>across</u> <u>subjects</u> and <u>programs</u> focused on building literacy skills across content areas

The "What": Key Content Shifts in the CCSS

Three Shifts in English Language Arts/Literacy:

1. Building knowledge through contentrich nonfiction

Building knowledge through content rich non-fiction plays an essential role in literacy and in the Standards. In K-5, fulfilling the standards requires a 50-50 balance between informational and literary reading. Informational reading primarily includes content rich non-fiction in history/social studies, science and the arts; the K-5 Standards strongly recommend that students build coherent general knowledge both within each year and across years. In 6-12, ELA classes place much greater attention to a specific category of informational text—literary nonfiction—than has been traditional. In grades 6-12, the Standards for literacy in history/social studies, science and technical subjects ensure that students can independently build knowledge in these disciplines through reading and writing. To be clear, the Standards do require substantial attention to literature throughout K-12, as half of the required work in K-5 and the core of the work of 6-12 ELA teachers.

2. Reading, writing and speaking grounded in evidence from text, both literary and informational

The Standards place a premium on students writing to sources, i.e., using evidence from texts to present careful analyses, well-defended claims, and clear information. Rather than asking students questions they can answer solely from their prior knowledge or experience, the Standards expect students to answer questions that depend on their having read the text or texts with care. The Standards also require the cultivation of narrative writing throughout the grades, and in later grades a command of sequence and detail will be essential for effective argumentative and informational writing. Likewise, the reading standards focus on students' ability to read carefully and grasp information, arguments, ideas and details based on text evidence. Students should be able to answer a range of text-dependent questions, questions in which the answers require inferences based on careful attention to the text.

3. Regular practice with academic language

Rather than focusing solely on the skills of reading and writing, the Standards highlight the growing complex text and its complexity of the texts students must read to be ready for the demands of college and careers. The Standards build a staircase of text complexity so that all students are ready for the demands of college, and career-level reading no later than the end of high school. Closely related to text complexity—and inextricably connected to reading comprehension—is a focus on academic vocabulary: words that appear in a variety of content areas (such as ignite and commit

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			Re	ading Literatu	re and Info	ormational	Texts										
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• B	The second second	the second second second		nformational tex	AND DESCRIPTION OF THE PERSON	 Balance grade 6-8 = 45%* literature; 55%* informational text Balance grades 9-12 = 30%* literature; 70%* informational text 											
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Focus on teaching conventions of standard English, knowledge of language in different contexts, and vocabulary acquisition.

The "What": Key Content Shifts in the CCSS

Three Shifts in Mathematics:

1. Focus strongly where the Standards focus

Focus: The Standards call for a greater focus in mathematics. Rather than racing to cover topics in today's mile-wide, inch-deep curriculum, teachers use the power of the eraser and significantly narrow and deepen the way time and energy is spent in the math classroom. They focus deeply on the major work* of each grade so that students can gain strong foundations: solid conceptual understanding, a high degree of procedural skill and fluency, and the ability to apply the math they know to solve problems inside and outside of the math classroom.

2. Coherence: think across grades, and link to major topics* within grades

Thinking across grades: The Standards are designed around coherent progressions from grade to grade. Principals and teachers carefully connect the learning across grades so that students can build new understanding onto foundations built in previous years. Teachers can begin to count on deep conceptual understanding of core content and build on it. Each standard is not a new event, but an extension of previous learning.

Linking to major topics: Instead of allowing additional or supporting topics to detract from the focus of the grade, these topics can serve the grade level focus. For example, instead of data displays as an end in themselves, they support grade-level word problems

3. Rigor: in major topics* pursue: conceptual understanding, procedural skill and fluency, and application with equal intensity

Conceptual understanding: The Standards call for conceptual understanding of key concepts, such as place value and ratios. Teachers support students' ability to access concepts from a number of perspectives so that students are able to see math as more than a set of mnemonics or discrete procedures.

Procedural skill and fluency: The Standards call for speed and accuracy in calculation. Teachers structure class time and/or homework time for students to practice core functions such as single-digit multiplication so that students have access to more complex concepts and procedures Application: The Standards call for students to use math flexibly for applications. Teachers provide opportunities for students to apply math in context. Teachers in content areas outside of math, particularly science, ensure that students are using math to make meaning of and access content.

Grade	Priorities in Support of Conceptual Understanding and Fluency
K-2	Addition and subtraction—concepts, skills, and problem solving
3–5	Multiplication and division of whole numbers and fractions - concepts, skills, and problem solving
6	Ratios and proportional relationships; early expressions and equations
7	Ratios and proportional relationships; arithmetic of rational numbers 2
8	Linear algebra

Standards for Mathematical Practice

- 1. Make sense of problems and persevere in solving them.
- 2. Reason abstractly and quantitatively.
- 3. Construct viable arguments and critique the reasoning of others.
- 4. Model with mathematics.
- 5. Use appropriate tools strategically.
- 6. Attend to precision.
- 7. Look for and make use of structure.
- 8. Look for and express regularity in repeated reasoning.

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The "What": Key Content Shifts in the NGSS

The Next Generation Science Standards (NGSS) provide an important opportunity to improve not only science education but also student achievement. Based on the Framework for K–12 Science Education, the NGSS are intended to reflect a new vision for American science education. The following conceptual shifts in the NGSS demonstrate what is new and different about the NGSS (www.nextgenscience.org):

1. The NGSS Reflect the Interconnected Nature of Science through Focus, Understanding, and Application of Content

Interconnected Nature: Given the importance of science and engineering in the 21st century, students require a sense of contextual understanding with regard to scientific knowledge, how it is acquired and applied, and how science is connected through a series of concepts that help further our understanding of the world around us. Student performance expectations have to include a student's ability to apply a practice to content knowledge. Performance expectations thereby focus on understanding and application as opposed to memorization of facts devoid of context.

Deeper Understanding of Content: The Framework identified a smaller set of Disciplinary Core Ideas that students should know by the time they graduate from high school, and the NGSS are written to focus on the same. It is important that teachers and curriculum/assessment developers understand that the focus is on the core ideas—not necessarily the facts that are associated with them. The facts and details are important evidence, but not the sole focus of instruction.

2. The Science Concepts in the NGSS **Build Coherently** from K–12.

Build Coherently: There are two key points that are important to understand: **First**, focus and coherence must be a priority. What this means to teachers and curriculum developers is that the same ideas or details are not covered each year. Rather, a progression of knowledge occurs from grade band to grade band that gives students the opportunity to learn more complex material, leading to an overall understanding of science by the end of high school and building towards College and Career Readiness.

Second, the progressions in the NGSS automatically assume that previous material has been learned by the student. Choosing to omit content at any grade level or band will impact the success of the student in understanding the core ideas and put additional responsibilities on teachers later in the process.

3. Science and Engineering are Integrated across K-12 in the NGSS.

Science and Engineering are Integrated: A significant difference in the Next Generation Science Standards (NGSS) is the integration of engineering and technology into the structure of science education. This integration is achieved by raising engineering design to the same level as scientific inquiry in classroom instruction when teaching science disciplines at all levels and by giving core ideas of engineering and technology the same status as those in other major science disciplines.

Science and Engineering Practices

- 1. Asking questions (for science) and defining problems (for engineering)
- 2. Developing and using models
- 3. Planning and carrying out investigations
- 4. Analyzing and interpreting data

Crosscutting Concepts:

- 1. Patterns
- 2. Cause and effect
- 3. Scale, proportion, and quantity
- 4. Systems and system models

Disciplinary Core Ideas

- 1. Physical Science
- 2. Life Science
- 3. Earth and Space Science
- 4. Engineering, Technology and Applications of Science

- 5. Using mathematics and computational thinking
- 6. Constructing explanations (for science) and designing solutions (for engineering)
- 7. Engaging in argument from evidence
- 8. Obtaining, evaluating, and communicating information
- 5. Energy and matter
- 6. Structure and function
- 7. Stability and change

Student Practices across Learning Standards and Skills Frameworks in K-12 Education

Value Of A Control of State of	www.p21.org/overview/ skills-framework	21 st Century Skills		1. Learning & Innovation	Creativity and innovation	Critical thinking and	problem solving	Communication and	collaboration	2. Information, Media and	Technology	Information literacy	Media literacy	Information,	communications and	technology literacy	3. Life and Career	Flexibility and adaptability	Initiative and self-direction	Social and cross-cultural	skills	Productivity and	accountability	Leadership and	responsibility		Core Subjects and 21st	Century Inemes	Global awareness	Financial, economic,	business and	entrepreneurial literacy	Civic literacy	Health literacy Environmental literacy	,
www.careertech.org/career- technical-	CTE	Career Ready	Practices	Act as a responsible and	contributing citizen and	employee.	1. Apply appropriate academic	and technical skills.	Attend to personal health	and financial well being.	Communicate clearly,	effectively and with reason.	4. Consider the	environmental, social and	economic impacts of	decisions.	5. Demonstrate creativity and	innovation.	6. Employ valid and reliable	research strategies.	7. Utilize critical thinking to	make sense of problems	and persevere in solving	them.	8. Model integrity, ethical	leadership and effective	management.	Plan education and career	path aligned to personal	goals.	10. Use technology to enhance	productivity.	11. Work productively in teams	while using cultural/global	competence.
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	COMMON CORE STATE STANDARDS WASHINGTON	Mathematical	Practices		M1. Make sense of problems and	persevere in solving them	M2. Reason abstractly and	quantitatively	M3. Construct viable arguments		of others	M4. Model with mathematics	M5. Use appropriate tools	strategically	M6. Attend to precision	M7. Look for and make use of	structure	M8. Look for and express regularity	in repeated reasoning	-															
http://www.k12.wa.us/Sci ence/NGSS.aspx	SCIENCE SCIENCE SCHWAGUS Not States, by Source	Science and Engineering	Practices		S1. Ask questions	(for science) and	define problems (for	engineering)	S2. Develop and use models		investigations	S4. Analyze and interpret data	S5. Use mathematics and	computational	thinking	S6. Construct explanations		design solutions (for	engineering)	S7. Engage in argument from	evidence	S8. Obtain, evaluate, and		information											