www.nextgenscience.org/	www.k12.wa.us/CoreStandards/		www.k12cs.org/framework-statements-by-grade-band//	www.careertech.org/career-technical-education/cctc/info.html	www.p21.org/overview/skills-framework
NEXT GENERATION SCIENCE STANDARDS	CCSSI COMMON CORE STATE STANDARDS WASHINGTON / COMMON CORE STATE STANDARDS INITIATIVE PREPARING AMERICA'S STUDENTS FOR COLLEGE & CAREER		K12 CS K-12 Computer Science Framework	Learning that works for America CTE® CCTC Common Career Technical Core	21st CENTURY SKILLS

Science and Engineering Practices

S1. Asking questions (for science) and defining problems (for engineering)

S2. Developing and using models

S3. Planning and carrying out investigations

S4. Analyzing and interpreting data

S5. Using mathematics and computational thinking

S6. Constructing explanations (for science) and designing solutions (for engineering)

S7. Engaging in argument from evidence

S8. Obtaining, evaluating, and communicating information

Mathematical Practices

M1. Make sense of problems and persevere in solving them

M2. Reason abstractly and quantitatively

M3. Construct viable arguments and critique the reasoning 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

English Language Arts Practices

E1. They demonstrate independence

E2. They build strong content knowledge

E3. They respond to the varying demands of audience, task, purpose, and discipline

E4. They comprehend as well as critique

E5. They value evidence

E6. They use technology and digital media strategically and capably

E7. They come to understanding other perspectives and cultures

Computer Science Practices

CS1. Fostering an Inclusive Computing Culture

CS2. Collaborating Around Computing

CS3. Recognizing and Defining Computational Problems

CS4. Developing and Using Abstractions

CS5. Creating Computational Artifacts

CS6. Testing and Refining Computational Artifacts

CS7. Communicating About Computing

Career Ready Practices

1. Act as a responsible and contributing citizen and employee.
2. Apply appropriate academic and technical skills.
3. Attend to personal health and financial well being.
4. Communicate clearly, effectively and with reason.
5. Consider the environmental, social and economic impacts of decisions.
6. Demonstrate creativity and innovation.
7. Employ valid and reliable research strategies.
8. Utilize critical thinking to make sense of problems and persevere in solving them.
9. Model integrity, ethical leadership and effective management.
10. Plan education and career path aligned to personal goals.
11. Use technology to enhance productivity.
12. Work productively in teams while using cultural/global competence.

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 Themes

Global awareness
Financial, economic, business and entrepreneurial literacy
Civic literacy
Health literacy
Environmental literacy