

Change and Continuity: Causes and Consequences

Computer Science	
Computational Thinking	
L1:CT.6	Describe and analyze a sequence of instructions being followed (e.g., describe a character's behavior in a video game as driven by rules and algorithms).
L1:CT.9	Interact with content-specific models and simulations (e.g., ecosystems, epidemics, molecular dynamics) to support learning and research.
L1:CT.14	Examine connections between elements of mathematics and computer science including binary numbers, logic, sets and functions.
Computing Practice & Programming	
L1:CPP.9	Collect and analyze data that is output from multiple runs of a computer program.
Computers and Communications Devices	
L1:CD.3	Demonstrate an understanding of the relationship between hardware and software.
L1:CD.5	Apply strategies for identifying and solving routine hardware problems that occur during everyday computer use.
Community Global, and Ethical Impacts	
L1:CI.2	Demonstrate knowledge of changes in information technologies over time and the effects those changes have on education, the workplace, and society.
English Language Arts	
Reading: Literature	
CCSS.ELA-LITERACY.RL.3	Analyze how particular elements of a story or drama interact (e.g., how setting shapes the characters or plot).
CCSS.ELA-LITERACY.RL.9	Compare and contrast a fictional portrayal of a time, place, or character and a historical account of the same period as a means of understanding how authors of fiction use or alter history.
Reading: Informational Text	
CCSS.ELA-LITERACY.RI.5	Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole and to the development of the ideas.
CCSS.ELA-LITERACY.RI.6	Determine an author's point of view or purpose in a text and analyze how the author distinguishes his or her position from that of others.
Writing	
CCSS.ELA-LITERACY.W.10	Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.
Speaking & Listening	
CCSS.ELA-LITERACY.SL.6	Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate.
Language	
CCSS.ELA-LITERACY.L.6	Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.
Writing in Science & Technical Subjects	
CCSS.ELA-LITERACY.WHS T.9	Draw evidence from informational texts to support analysis, reflection, and research.

Fine Arts	
Creating	
MU:Cr1.1	a Generate rhythmic, melodic, and harmonic phrases and variations over harmonic accompaniments within AB, ABA, or theme and variation forms that convey expressive intent.
TH:Cr1.1	a. Investigate multiple perspectives and solutions to staging challenges in a drama/theatre work. b. Explain and present solutions to design challenges in a drama/theatre work. c. Envision and describe a scripted or improvised character's inner thoughts and objectives in a drama/theatre work.
TH:Cr2.1	a. Examine and justify original ideas and artistic choices in a drama/theatre work based on critical analysis, background knowledge, and historical and cultural context. b. Demonstrate mutual respect for self and others and their roles in preparing or devising drama/theatre work.
Performing/Presenting/Producing	
DA:Pr6.1	a. Recommend changes to and adapt movements to performance area. Use performance etiquette and performance practices during class, rehearsal and performance. Maintain journal documenting these efforts. Post-performance, accept notes from choreographer and apply corrections to future performances. b. Explore possibilities of producing dance in a variety of venues or for different audiences and, using production terminology, explain how the production elements would be handled in different situations.
MA:Pr6.1	a. Evaluate various presentation formats in order to fulfill various tasks and defined processes in the presentation and/or distribution of media artworks. b. Evaluate the results of and improvements for presenting media artworks, considering impacts on personal growth. c. Present the final version of their documented personal composition, song, or arrangement, using craftsmanship and originality to demonstrate unity and variety, and convey expressive intent.
Responding	
MU:Re7.1	a Select or choose contrasting music to listen to and compare the connections to specific interests or experiences for a specific purpose. b. Classify and explain how the elements of music and expressive qualities relate to the structure of contrasting pieces. c. Identify and compare the context of music from a variety of genres, cultures, and historical periods.
VA:Re7.1	a. Explain how the method of display, the location, and the experience of an artwork influence how it is perceived and valued. b. Analyze multiple ways that images influence specific audiences.
Connecting	
DA:Cn10.1	a. Compare and contrast the movement characteristics or qualities found in a variety of dance genres. Discuss how the movement characteristics or qualities differ from one's own movement characteristics or qualities and how different perspectives are communicated. b. Research the historical development of a dance genre or style. Use knowledge gained from the research to create a dance study that evokes the essence of the style or genre. Share the study with peers as part of a lecture demonstration that tells the story of the historical journey of the chosen genre or style. Document the process of research and application.

MA:Cn11.1	a. Research and demonstrate how media artworks and ideas relate to various situations, purposes and values, such as community, vocations, and social media. b. Analyze and responsibly interact with media arts tools and environments, considering copyright, ethics, media literacy, and social media.
Mathematics	
The Number System	
CCSS.MATH.CO NTENT. 7.NS.A.1	Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram.
CCSS.MATH.CO NTENT. 7.NS.A.2	Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.
CCSS.MATH.CO NTENT. 7.NS.A.3	Solve real-world and mathematical problems involving the four operations with rational numbers.
Ratios & Proportional Relationships	
CCSS.MATH.CO NTENT. 7.RP.A.3	Use proportional relationships to solve multistep ratio and percent problems. Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.
Physical Education and Health	
Motor Skills and Movement	
S1.M18	Executes consistently (70% of the time) a mature pattern for target games such as bowling, bocce or horseshoes.
S1.M19	Strikes, with an implement, a stationary object for accuracy and distance in activities such as croquet, shuffleboard or golf.
S1.M20	Strikes a pitched ball with an implement to open space in a variety of practice tasks.
S1.M21	Catches, with a mature pattern, from different trajectories using a variety of objects in small-sided game play.
Health Enhancement & Fitness	
S3.M8	Adjusts physical activity based on quantity of exercise needed for a minimal health standard and/or optimal functioning based on current fitness level.
S3.M17	Develops strategies for balancing healthy food, snacks and water intake, along with daily physical activity.
S3.M18	Practices strategies for dealing with stress, such as deep breathing, guided visualization and aerobic exercise.
Personal and Social Behavior	
S4.M3	Provides corrective feedback to a peer, using teacher-generated guidelines, and incorporating appropriate tone and other communication skills.
Value of Physical Activity	
S5.M2	Identifies positive mental and emotional aspects of participating in a variety of physical activities
Science	
Life Sciences	
LS4-1	Analyze and interpret data for patterns in the fossil record that document the existence, diversity, extinction, and change of life forms throughout the history of life on Earth under the assumption that natural laws operate today as in the past.

LS4-2	Apply scientific ideas to construct an explanation for the anatomical similarities and differences among modern organisms and between modern and fossil organisms to infer evolutionary relationships.
LS4-3	Analyze displays of pictorial data to compare patterns of similarities in the embryological development across multiple species to identify relationships not evident in the fully formed anatomy.
Engineering Design	
ETS1-3	Analyze data from tests to determine similarities and differences among several design solutions to identify the best characteristics of each that can be combined into a new solution to better meet the criteria for success.
English/Science Connections	
CCSS.ELA-LITERACY.RST.9	Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.
Social/Emotional Learning	
Self-Management	
1A.b	Apply strategies to manage stress and to motivate successful performance.
Social Studies	
World History	
NSS-WS7-1	The causes and consequences of political revolutions in the late 18th and early 19th centuries
NSS-WS7-2	The causes and consequences of the agricultural and industrial revolutions, 1700-1850
NSS-WS7-3	The transformation of Eurasian societies in an era of global trade and rising European power, 1750-1870
NSS-WS7-4	Patterns of nationalism, state-building, and social reform in Europe and the Americas, 1830-1914
NSS-WS7-5	Patterns of global change in the era of Western military and economic domination, 1800-1914
NSS-WS7-6	Major global trends from 1750-1914
English/Social Studies Connections	
CCSS.ELA-LITERACY.RH.9	Analyze the relationship between a primary and secondary source on the same topic.