

Preparing for Tomorrow: Ethics

Computer Science	
Computational Thinking	
L1:CT.12	Use abstraction to decompose a problem into sub problems.
L1:CT.13	Understand the notion of hierarchy and abstraction in computing including high level languages, translation, instruction set, and logic circuits.
Computing Practice & Programming	
L1:CPP.6	Demonstrate good practices in personal information security, using passwords, encryption, and secure transactions.
L1:CPP.7	Identify interdisciplinary careers that are enhanced by computer science.
Computers and Communications Devices	
L1:CD.7	Describe what distinguishes humans from machines focusing on human intelligence versus machine intelligence and ways we can communicate.
L1:CD.8	Describe ways in which computers use models of intelligent behavior (e.g., robot motion, speech and language understanding, and computer vision).
Community Global, and Ethical Impacts	
L1:CI.5	Describe ethical issues that relate to computers and networks (e.g., security, privacy, ownership, and information sharing).
English Language Arts	
Reading: Literature	
CCSS.ELA-LITERACY.RL.1	Cite several pieces of textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.
CCSS.ELA-LITERACY.RL.10	By the end of the year, read and comprehend literature, including stories, dramas, and poems, in the grades 6-8 text complexity band proficiently, with scaffolding as needed at the high end of the range.
Reading: Informational Text	
CCSS.ELA-LITERACY.RI.1	Cite several pieces of textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.
Writing	
CCSS.ELA-LITERACY.W.2	Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.
Speaking & Listening	
CCSS.ELA-LITERACY.SL.2	Analyze the main ideas and supporting details presented in diverse media and formats (e.g., visually, quantitatively, orally) and explain how the ideas clarify a topic, text, or issue under study.
Language	
CCSS.ELA-LITERACY.L.2	Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.
Writing in Science & Technical Subjects	
CCSS.ELA-LITERACY.WHS T.2	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
Fine Arts	
Creating	
MA:Cr2.1	Design, propose, and evaluate artistic ideas, plans, prototypes, and production processes for media arts productions, considering expressive intent and resources.

MA:Cr3.1	a. Coordinate production processes to integrate content and components for determined purpose and meaning in media arts productions, demonstrating understanding of associated principles, such as narrative structures and composition. b. Improve and refine media artworks by intentionally emphasizing particular expressive elements to reflect an understanding of purpose, audience, or place.
VA:Cr1.1	a. Apply methods to overcome creative blocks. b. Develop criteria to guide making a work of art or design to meet an identified goal.
Performing/Presenting/Producing	
MU:Pr6.1	a Perform the music with technical accuracy and stylistic expression to convey the creator’s intent. b Demonstrate performance decorum (such as stage presence, attire, and behavior) and audience etiquette appropriate for venue, purpose, and context .
TH:Pr6.1	a. Participate in rehearsals for a drama/theatre work that will be shared with an audience.
Responding	
DA:Re9.1	a. Compare artistic intent, content and context from dances to examine the characteristics of genre, style, or cultural movement practice. Based on the comparison, refine artistic criteria using genre-specific dance terminology.
MA:Re9.1	Develop and apply criteria to evaluate various media artworks and production processes, considering context, and practicing constructive feedback.
TH:Re9.1	a. Explain preferences, using supporting evidence and criteria to evaluate drama/theatre work. b. Consider the aesthetics of the production elements in a drama/theatre work. c. Identify how the intended purpose of a drama/theatre work appeals to a specific audience.
Connecting	
VA:Cn10.1	Individually or collaboratively create visual documentation of places and times in which people gather to make and experience art or design in the community.
Mathematics	
Geometry	
CCSS.MATH.CO NTENT. 7.G.A.1	Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.
CCSS.MATH.CO NTENT. 7.G.A.2	Draw (freehand, with ruler and protractor, and with technology) geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle.
CCSS.MATH.CO NTENT. 7.G.A.3	Describe the two-dimensional figures that result from slicing three-dimensional figures, as in plane sections of right rectangular prisms and right rectangular pyramids.
CCSS.MATH.CO NTENT. 7.G.B.5	Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure.
CCSS.MATH.CO NTENT. 7.G.B.6	Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.

Physical Education and Health	
Motor Skills and Movement	
S1.M22	Demonstrates correct technique for a variety of skills in 1 self-selected outdoor activity.
S1.M24	Demonstrates correct technique for a variety of skills in 1 self-selected individual-performance activity.
Movement and Performance	
S2.M4	Reduces open space on defense by staying close to the opponent as he/ she nears the goal.
S2.M5	Reduces open space by not allowing the catch (denial) or anticipating the speed of the object and person for the purpose of interception or deflection.
S2.M6	Transitions from offense to defense or defense to offense by recovering quickly and communicating with teammates.
Health Enhancement & Fitness	
S3.M1	Identifies barriers related to maintaining a physically active lifestyle and seeks solutions for eliminating those barriers.
S3.M2	Participates in a physical activity 2 times a week outside of physical education class.
S3.M5	Participates in a variety of lifetime dual and individual sports, martial arts or aquatic activities.
Personal and Social Behavior	
S4.M4	Demonstrates cooperation skills by establishing rules and guidelines for resolving conflicts.
Value of Physical Activity	
S5.M3	Generates positive strategies such as offering suggestions or assistance, leading or following others and providing possible solutions when faced with a group challenge
Science	
Life Sciences	
LS4-4	Construct an explanation based on evidence that describes how genetic variations of traits in a population increase some individuals' probability of surviving and reproducing in a specific environment.
LS4-5	Gather and synthesize information about the technologies that have changed the way humans influence the inheritance of desired traits in organisms.
LS4-6	Use mathematical representations to support explanations of how natural selection may lead to increases and decreases of specific traits in populations over time.
Engineering Design	
ETS1-2	Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem.
English/Science Connections	
CCSS.ELA-LITERACY.RST.10	By the end of grade 8, read and comprehend science/technical texts in the grades 6-8 text complexity band independently and proficiently.
Social/Emotional Learning	
Relationship Skills	
1C.a	Set a short-term goal and make a plan for achieving it.

Social Studies	
Economics and Financial Literacy	
NSS-E.4G	Know: . Lenders charge different interest rates based on the risk of nonpayment by borrowers; The higher the risk of nonpayment, the higher the interest rate charged; The lower the risk of nonpayment, the lower the interest rate charged. As a banker, decide for each of three potential borrowers with different credit backgrounds whether to extend credit, and if so, what the interest rate should be. Write a decision letter to the borrower justifying the banker’s decision.
NSS-E.4H	Know: People can use credit to finance investments in education and housing; The benefits of using credit in this way are spread out over a period of time and may be large; The large costs of acquiring the education or housing are spread out over time as well; The benefits of using credit to make daily purchases of food or clothing are short-lived and do not accumulate over time. Explain the benefits and costs when choosing to use credit to acquire an education, a smart phone, or a pair of jeans.
NSS-E.5A	Know: Financial assets include a wide variety of financial instruments including bank deposits, stocks, bonds, and mutual funds; Real estate and commodities are also often viewed as financial assets. Describe the differences among the different types of assets. Find the prices of a variety of current possible investments.
NSS-E.5B	Know: Interest is received from money deposited in bank accounts; It is also received by owning a corporate or government bond or making a loan. Calculate the amount of interest income received from depositing a certain amount of money in a bank account paying 1 percent per year and from owning a bond paying 5 percent per year.
NSS-E.5C	Know: When people buy corporate stock, they are purchasing ownership shares in a business; If the business is profitable, they will expect to receive income in the form of dividends and/or from the increase in the stock’s value; The increase in the value of an asset (like a stock) is called a capital gain; If the business is not profitable, investors could lose the money they have invested. Determine the amount of dividends paid from a selected stock and how much the price of the stock has appreciated or depreciated over the year.
English/Social Studies Connections	
CCSS.ELA-LITERACY.RH.10	By the end of grade 8, read and comprehend history/social studies texts in the grades 6-8 text complexity band independently and proficiently.