	Preparing for Tomorrow: Known and Unknown		
Computer Scienc			
Computational T			
L1:CT.3	Demonstrate how a string of bits can be used to represent alphanumeric information.		
Collaboration			
L1:CL.2	Use online resources (e.g., email, online discussions, collaborative web environments)		
	to participate in collaborative problem-solving activities for the purpose of developing		
	solutions or products.		
Computing Pract	Computing Practice & Programming		
L1:CPP.5	Construct a program as a set of step-by-step instructions to be acted out (e.g., make a		
	peanut butter and jelly sandwich activity).		
Computers and C	Communications Devices		
L1:CD.6	Recognize that computers model intelligent behavior (as found in robotics, speech		
	and language recognition, and computer animation).		
Community Glob	al, and Ethical Impacts		
L1:CI.2	Identify the impact of technology (e.g., social networking, cyber bullying, mobile		
	computing and communication, web technologies, cyber security, and virtualization)		
	on personal life and society.		
English Language	Arts		
Reading: Literatu	re		
CCSS.ELA-	Cite textual evidence to support analysis of what the text says explicitly as well as		
LITERACY.RL.1	inferences drawn from the text.		
CCSS.ELA-	By the end of the year, read and comprehend literature, including stories, dramas,		
LITERACY.RL.10	and poems, in the grades 6-8 text complexity band proficiently, with scaffolding as		
	needed at the high end of the range.		
Reading: Informa			
CCSS.ELA-	Cite textual evidence to support analysis of what the text says explicitly as well as		
LITERACY.RI.1	inferences drawn from the text.		
Writing			
CCSS.ELA-	Write informative/explanatory texts to examine a topic and convey ideas, concepts,		
LITERACY.W.2	and information through the selection, organization, and analysis of relevant content.		
Speaking & Lister			
CCSS.ELA-	Interpret information presented in diverse media and formats (e.g., visually,		
LITERACY.SL.2	quantitatively, orally) and explain how it contributes to a topic, text, or issue under		
Language	study.		
Language	Demonstrate command of the conventions of standard Euclide conitalization		
CCSS.ELA-	Demonstrate command of the conventions of standard English capitalization,		
LITERACY.L.2	punctuation, and spelling when writing.		
-	e & Technical Subjects		
CCSS.ELA- LITERACY.WHS	Write informative/explanatory texts, including the narration of historical events,		
	scientific procedures/ experiments, or technical processes.		
T.2 Fine Arts			
Creating MA:Cr2.1	Organize, propose, and evaluate artistic ideas, plans, prototypes, and production		
	processes for media arts productions, considering purposeful intent.		



MA:Cr3.1	a. Experiment with multiple approaches to produce content and components for determined purpose and meaning in media arts productions, utilizing a range of associated principles, such as point of view and perspective. b. Appraise how elements and components can be altered for intentional effects and audience, and refine media artworks to reflect purpose and audience.
VA:Cr1.1	a. Combine concepts collaboratively to generate innovative ideas for creating art. b. Formulate an artistic investigation of personally relevant content for creating art.
Performing/Prese	enting/Producing
MU:Pr6.1	a Perform the music with technical accuracy to convey the creator's intent. b Demonstrate performance decorum (such as stage presence, attire, and behavior) and audience etiquette appropriate for venue and purpose.
TH:Pr6.1	a. Adapt a drama/theatre work and present it informally for an audience.
Responding	
DA:Re9.1	a. Discuss the characteristics and artistic intent of a dance from a genre, style, or cultural movement practice and develop artistic criteria to critique the dance using genre-specific dance terminology
MA:Re9.1	Determine and apply specific criteria to evaluate various media artworks and production processes, considering context and practicing constructive feedback.
TH:Re9.1	a. Use supporting evidence and criteria to evaluate drama/theatre work. b. Apply the production elements used in a drama/theatre work to assess aesthetic choices. c. Identify a specific audience or purpose for a drama/theatre work.
Connecting	
VA:Cn10.1	Generate a collection of ideas reflecting current interests and concerns that could be investigated in art-making.
Mathematics	
Expressions and	Equations
CCSS.MATH.CO NTENT6.EE.B.6	Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.
CCSS.MATH.CO NTENT.6.EE.B.7	Solve real-world and mathematical problems by writing and solving equations of the form $x + p = q$ and $px = q$ for cases in which p , q and x are all nonnegative rational numbers.
CCSS.MATH.CO NTENT.6.EE.B.8	Write an inequality of the form $x > c$ or $x < c$ to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form $x > c$ or $x < c$ have infinitely many solutions; represent solutions of such inequalities on number line diagrams.
CCSS.MATH.CO NTENT.6.EE.C.9	Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation.



Physical Education	on and Health		
Motor Skills and			
S1.M22	Demonstrates correct technique for basic skills in 1 self-selected outdoor activity.		
S1.M24	Demonstrates correct technique for basic skills in at least 2 self-selected outdoor		
	activities		
Movement and F	Performance		
S2.M4	Reduces open space on defense by making the body larger and reducing passing		
	angles.		
S2.M5	Reduces open space by not allowing the catch (denial) or by allowing the catch but		
	not the return pass.		
S2.M6	Transitions from offense to defense or defense to offense by recovering quickly.		
Health Enhancer	nent & Fitness		
S3.M1	Is able to identify 3 influences on physical activity (e.g., school, family & peers;		
	community & built environment; policy).		
S3.M2	Participates in self-selected physical activity outside of physical education class.		
S3.M5	Participates in a variety of lifetime recreational team sports, outdoor pursuits or		
	dance activities.		
Personal and Soc	cial Behavior		
S4.M4	Accepts differences among classmates in physical development, maturation and		
	varying skill levels by providing encouragement and positive feedback.		
Value of Physica			
, , S5.M3	Recognizes individual challenges and copes in a positive way, such as extending effort,		
	asking for help or feedback and/or modifying the tasks.		
Science	5 1 7 7 5		
Physical Sciences	5		
PS1-4	Develop a model that predicts and describes changes in particle motion, temperature,		
-	and state of a pure substance when thermal energy is added or removed.		
PS1-5	Develop and use a model to describe how the total number of atoms does not change		
	in a chemical reaction and thus mass is conserved.		
PS1-6	Undertake a design project to construct, test, and modify a device that either releases		
	or absorbs thermal energy by chemical processes		
English/Science Connections			
CCSS.ELA-	By the end of grade 8, read and comprehend science/technical texts in the grades 6-8		
LITERACY.RST.1	text complexity band independently and proficiently.		
0			
Social/Emotiona	Learning		
Relationship Skil	-		
1C.a	Set a short-term goal and make a plan for achieving it.		
Social Studies			
Economics and F	inancial Literacy		
NSS-E.3A	Know: Banks and other financial institutions loan funds received from depositors to		
100 2.0/1	borrowers; Part of the interest received from these loans is used to pay interest to		
	depositors for the use of their money. Draw and label a diagram showing the role that		
	financial institutions play in channeling funds from savers to borrowers. Conduct		
	research into the interest rate paid on savings and charged for loans by financial		
	institutions in their community and create a classroom bulletin board summarizing		
	their findings.		



NSS-E.3B	Know: For the saver, an interest rate is the price a financial institution pays for using a saver's money and is normally expressed as an annual percentage of the amount saved. Define an interest rate as the price paid for using someone else's money,
	expressed as a percentage of the amount saved.
NSS-E.3C	Know: Interest rates paid on savings and charged on loans, like all prices, are
	determined in a market. Explain why banks that experience an increase in the number
	of people who want loans may decide to pay higher interest rates on deposits.
NSS-E.3D	Know: When interest rates increase, people earn more on their savings and their
	savings grow more quickly. Calculate the total amount of interest earned on two
	certificates of deposit—one with a higher rate of interest than the other—and explain
	how the certificate of deposit with the higher interest rate can help a saver reach his or her savings goal faster.
NSS-E.3E	Know: Principal is the initial amount of money upon which interest is paid.
	Differentiate between principal and interest.
NSS-E.3F	Know: Compound interest is the interest that is earned not only on the principal but
	also on the interest already earned. Use the Rule of 72 to determine the number of
	years it will take for their savings to double in value. Using a formula for compound
	interest, calculate how much two different savers, one who starts to save at age 21
	and one who starts to save at age 35, will have at retirement.
NSS-E.3G	Know: The value of a person's savings in the future is determined by the amount
	saved and the interest rate; The earlier people begin to save, the more savings they
	will be able to accumulate, all other things equal, as a result of the power of
	compound interest. Predict which of two individuals will have more in savings for
	retirement when one individual has saved \$2,000 a year for the last 15 years before
	retirement and the other has saved \$1,000 a year for last 30 years before retirement,
	assuming each earns the same rate of interest.
English/Social Stu	udies Connections
CCSS.ELA-	By the end of grade 8, read and comprehend history/social studies texts in the grades
LITERACY.RH.1	6-8 text complexity band independently and proficiently.
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