

Standards Addressed in NorthBay Education Lessons	Vultures	Food 101 For Families	Biodiversity At Home	Trees At Home	Stormwater Runoff	Invasive Species
Common Core and Maryland College and Career-Ready Standards for Middle School ELA & Mathematics						
Writing^{1,2}						
W.6.7 Conduct short research projects to answer a question, drawing on several sources and refocusing the inquiry when appropriate	✓	✓	✓	✓	✓	✓
W.7.7 Conduct short research projects to answer a question, drawing on several sources and generating additional related, focused questions for further research and investigation.	✓	✓	✓	✓	✓	
W.8.7 Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration.	✓	✓	✓	✓	✓	
W.6-8.1 ³ Write arguments to support claims with clear reasons and relevant evidence.	✓	✓	✓	✓		
Speaking and Listening						
SL.6-8.1 Engage effectively in a range of collaborative discussions (one-on-one, in groups, teacher-led) with diverse partners on grade 6-8 topics, texts, and issues, building on others' ideas and expressing their own clearly.	+ ⁴			+	+	+
SL.6-8.4 Present claims and findings, emphasizing salient points in a focused, coherent manner with relevant evidence, sound valid reasoning, and well-chosen details; use appropriate eye contact, adequate volume, and clear pronunciation.	+			+	+	+
(continued next page)						

¹ Most of the standards represented here are simultaneously Maryland College and Career-Ready (MCCR) standards and Common Core Standards (CCSS). Common Core Standards that *are not* included in Maryland's College and Career-Ready standards are labeled as "Common Core."

² Maryland College and Career-Ready Standards for ELA acquired from

[https://mdk12.msde.maryland.gov/INSTRUCTION/StandardsandFrameworks/ela/SiteAssets/HomePage/MCCRS%20Middle%20School%20\(6-8\)%20\(2\).pdf](https://mdk12.msde.maryland.gov/INSTRUCTION/StandardsandFrameworks/ela/SiteAssets/HomePage/MCCRS%20Middle%20School%20(6-8)%20(2).pdf)

³ Standards that were the same across grades are presented in this format, i.e. "6-8"

⁴ The "+" symbol indicates a standard could be met if the lesson is implemented and directed by a teacher

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Language						
L.6-8.1 Demonstrate command of the conventions of standard English grammar and usage when writing or speaking	✓	✓	✓	✓	✓	✓
L.6-8.2 Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing	✓	✓	✓	✓	✓	✓
L.6-8.3 Use knowledge of language and its conventions when writing, speaking, reading or listening.	✓	✓	✓	✓	✓	✓
Reading Information						
RI.6.7 Integrate information presented in different media or formats (e.g., visually, quantitatively) as well as in words to develop a coherent understanding of a topic or issue.	✓	✓	✓	✓	✓	✓
Mathematics Ratio and Proportion						
6.RP.1 Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.		✓				
7.RP.A.2 Recognize and represent proportional relationships between quantities.		✓				
Mathematics Geometry						
6.G.A.1 Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.					✓	✓
Statistics and Probability						
6.SP.A.1 Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answer		✓				
6.SP.B.5 Summarize numerical data sets in relation to their context.			✓			
Writing Literacy: A Common Core Standard						
WHST.6-8 .7 Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration.	✓	✓	✓	✓	✓	✓

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Reading Informational Text: A Common Core Standard						
RST.6-8.3 Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.	✓	✓	✓	✓	✓	✓
NGSS Middle School						
Life Science						
MS-LS2-1 Analyze and interpret data to provide evidence for the effects of resource availability on organisms and populations of organisms in an ecosystem	✓	✓	✓	✓	✓	
MS-LS2-4 Construct an argument supported by empirical evidence that changes to physical or biological components of an ecosystem affect populations.	✓	✓	✓	✓	✓	
MS-LS2-5 Evaluate competing design solutions for maintaining biodiversity and ecosystem services.	✓	✓	✓	✓	✓	
Engineering Design						
MS-ETS1.B Developing possible solutions					✓	
Earth and Human Activity						
MS-ESS3-3 Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.	✓	✓	✓	✓	✓	
MS-ESS3-4 Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.		✓				
NGSS High School						
Life Science						
HS-LS2-5 Develop a model to illustrate the role of photosynthesis and cellular respiration in the cycling of carbon among the biosphere, atmosphere, hydrosphere, and geosphere.				+		
Earth and Human Activity						
HS-ESS2-6 Develop a quantitative model to describe the cycling of carbon among the hydrosphere, atmosphere, geosphere, and biosphere				+		