

Standards and Benchmarks

Lesson Plan	Next Generation Science Standards	Common Core
Myocaster Multiplier	<p>Life Sciences (Grades 5-8)</p> <ul style="list-style-type: none"> Ecosystems: Interactions, Energy, and Dynamics 5-LS2-1, MS-LS2-1, MS-LS2-4 	<p>Mathematics (Grades 4-8)</p> <ul style="list-style-type: none"> Represent and interpret data 4MD, 5MD Expressions and equations 6EE, 7EE Functions 8F <p>Reading: Informational Text (RI) (Grades 4-8)</p> <ul style="list-style-type: none"> Key ideas and Details 6.1, 7.1, 8.1 Integration of knowledge and ideas 4.9, 5.9, 6.7, 7.7, 8.7 <p>Speaking and Listening (SL) (Grades 4-8)</p> <ul style="list-style-type: none"> Comprehension and collaboration 4.1, 5.1, 6.1, 6.2, 7.1, 7.2, 8.1, 8.2
Most Unwanted Media Design	<p>Engineering, Technology, and Applications of Science (Grades 6-12)</p> <ul style="list-style-type: none"> Engineering Design MS-ETS1-1 <p>Life Sciences (Grades 6-12)</p> <ul style="list-style-type: none"> Ecosystems: Interactions, Energy, and Dynamics MS-LS2-2, MS-LS2-4, MS-LS2-5, HS-LS2-7 	<p>Speaking and Listening (SL) (Grades 1-6)</p> <ul style="list-style-type: none"> Comprehension and Collaboration 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1, 6.2, 7.2, 8.2, 9.2, 10.2, 11.2, 12.2 Presentation Knowledge and Ideas 6.4, 7.4, 8.4, 9.4, 10.4, 11.4, 12.4, 6.5, 7.5, 8.5, 9.5, 10.5, 11.5, 12.5 <p>Writing (W) (Grades 6-12)</p> <ul style="list-style-type: none"> Text Types and Purposes 6.2, 7.2, 8.2, 9.2, 10.2, 11.2, 12.2, 6.3, 7.3, 8.3, 9.3, 10.3, 11.3, 12.3 Production and Distribution of Writing 8.6, 9.6, 10.6, 11.6, 12.6 Research to Build and Present Knowledge 8.7, 9.7, 10.7, 11.7, 12.7, 8.8, 9.8, 10.8, 11.8, 12.8
Design the Ultimate Invader	<p>Life Sciences (Grades 4-12)</p> <ul style="list-style-type: none"> Biological Evolution: Unity and Diversity 5-LS2-1 Ecosystems: Interactions, Energy, & Dynamics MS-LS2-1, MS-LS2-2, MS-LS2-4, HS-LS2-2, HS-LS2-6 From Molecules to Organisms: Structures and Processes 4-LS1-1, 5-LS1-1, MS-LS1-4, MS-LS1-5, MS-LS1-6 	<p>Speaking and Listening (SL) (Grades 4-12):</p> <ul style="list-style-type: none"> Comprehension and Collaboration 4.1, 5.1, 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 Presentation of Knowledge and Ideas 4.4, 5.4, 6.4, 7.4, 8.4, 9.4, 10.4, 11.4, 12.4 <p>Writing (W) (Grades 9-12)</p> <ul style="list-style-type: none"> Text Types and Purposes 4.2, 5.2, 6.2, 7.2, 8.2, 9.2, 10.2, 11.2, 12.2

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Where in the World	<p>Earth and Space Sciences (Grades 5-12)</p> <ul style="list-style-type: none"> • Earth and Human Activity 5-ESS3-1 <p>Life Sciences (Grades 6-12)</p> <ul style="list-style-type: none"> • Ecosystems: Interactions, Energy, and Dynamics MS-LS2-2, HS-LS2-7 	<p>Reading: Informational Text (RI) (Grades 3-12)</p> <ul style="list-style-type: none"> • Key Ideas and Details: 3.3, 4.3, 5.3, 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 • Craft and Structure: 4.5, 5.5 • Integration of Key Ideas and Knowledge: 3.7, 3.8 <p>Speaking and Listening (SL) (Grades 3-12)</p> <ul style="list-style-type: none"> • Comprehension and Collaboration: 3.1, 4.1, 5.1, 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 • Presentation of Knowledge and Ideas: 3.4, 4.4, 6.4, 9.4, 10.4
BioBlitz	<p>Earth and Space Sciences (Grade 5)</p> <ul style="list-style-type: none"> • Earth and Human Activity 5-ESS3 <p>Life Sciences (Grades 6-8):</p> <ul style="list-style-type: none"> • Biological Evolution: Unity and Diversity 3-LS3-3, 3-LS4-4 • Ecosystems: Interactions, Energy, and Dynamics MS-LS2-1, MS-LS2-4, MS-LS2-5 • From Molecules to Organisms: Structures and Processes 5-LS1-1 	<p>Reading Informational Text (RI) (Grades 3-6)</p> <ul style="list-style-type: none"> • Key Ideas and Details 3.1-3, 4.1-3, 5.1-3, 6.1-3 • Craft and Structure 3.4, 3.5, 4.4, 4.5, 5.4, 5.5, 6.4, 6.5, 6.6 • Integration of Knowledge and Ideas 6.7 <p>Speaking and Listening (SL) (Grades 3-5)</p> <ul style="list-style-type: none"> • Comprehension and Collaboration 3.1, 4.1, 5.1, 6.1
Mitten Crab Roulette	<p>Life Sciences (Grades 6-12)</p> <ul style="list-style-type: none"> • Ecosystems: Interactions, Energy, and Dynamics MS-LS2-1, HS-LS2-2, HS-LS2-6 <p>Earth and Space Sciences (Grades 6-12)</p> <ul style="list-style-type: none"> • Earth and Human Activity MS-ESS3-4 	<p>Mathematics (Grades 6-12)</p> <ul style="list-style-type: none"> • Ratios and Proportional Relationships 6.RP.A.1, 7.RP.A.2 • Expressions and Equations 7.EE.B.4 • Statistics and Probability 6.SP.B.5, HSS-IC.A.1 <p>Science and Technical Subjects (RST) (Grades 6-12)</p> <ul style="list-style-type: none"> • Integration of Knowledge and Ideas: 6-8.7, 6-8.8, 6-8.9 • Research to Build and Present Knowledge: 9-10.8 • Key Ideas and Details: 6-8.1, 11-12.1 <p>Writing (W) (Grades 6-12)</p> <ul style="list-style-type: none"> • Text Types and Purposes: 6.1, 7.1, 8.1, 9.2, 10.2, 11.2, 12.2
Hazardous Paths to the Columbia Gorge	<p>Life Sciences (Grades 9-12)</p> <ul style="list-style-type: none"> • Ecosystems: Interactions, Energy, and Dynamics HS-LS2-2, HS-LS2-6, HS-LS2-7 <p>Earth and Space Sciences:</p> <ul style="list-style-type: none"> • Earth and Human Activity HS-ESS3-4 	<p>Science and Technical Subjects (RST) (Grades 9-12)</p> <ul style="list-style-type: none"> • Research to Build and Present Knowledge 9-10.3, 9-10.7, 11-12.3 <p>Writing (WHST) (Grades 9-12)</p> <ul style="list-style-type: none"> • Text Types and Purposes 9-10.2 • Production and Distribution of Writing 9-10.4, 11-12.2

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Physics of Phlying Phish	Physical Sciences (Grades 9-12) <ul style="list-style-type: none"> Motion and Stability: Forces and Interactions HS-PS2-1, HS-PS2-2 	Mathematics (Grades 9-12) <ul style="list-style-type: none"> Reasoning with Equations and Inequities HSA.REI.A.1 Speaking and Listening (SL) (Grades 9-12) <ul style="list-style-type: none"> Comprehension and Collaboration 9.1, 10.1, 11.1, 12.1 Presentation of Knowledge and Ideas 9.4, 10.4, 11.4, 12.14
Watershed Warriors	Engineering, Technology, and Applications of Science <ul style="list-style-type: none"> Engineering Design MS-ETS1-1, HS-ETS1-2 Life Sciences (Grades 6-12) <ul style="list-style-type: none"> Ecosystems: Interactions, Energy, and Dynamics MS-LS2-1, MS-LS2-5, HS-LS2-6, HS-LS2-7 	Science and Technical Subjects (RST) (Grades 6-12) <ul style="list-style-type: none"> Integration of Knowledge and Ideas 6-8.7, 6-8.9, 11-12.7 Key Ideas and Details 11-12.1 Speaking and Listening (SL) (Grade 8) <ul style="list-style-type: none"> Comprehension and Collaboration 8.1 Presentation of Knowledge and Ideas 8.4 Writing (WHST) (Grades 6-12) <ul style="list-style-type: none"> Write Informative/Explanatory Texts 6-8.2, 9-12.2 Research to Build and Present Knowledge 6-8.7, 6-8.9, 9-12.7
Food Web Invaders	Life Sciences (Grades 5-8) <ul style="list-style-type: none"> Ecosystems: Interactions, Energy, and Dynamics 5-LS2-1, MS-LS2-1, MS-LS2-2, MS-LS2-3, MS-LS2-4 	Speaking and Listening (SL) (Grades 4-8) <ul style="list-style-type: none"> Comprehension and Collaboration 4.1, 5.1, 6.1, 7.1, 8.1 Presentation of Knowledge and Ideas 5.5, 6.5, 7.5, 8.5 Writing (W) (Grades 6-8) <ul style="list-style-type: none"> Write Informative/Explanatory Texts 6.2, 7.2, 8.2
Stewardship Tag	Earth and Space Sciences (Grades 5-12) <ul style="list-style-type: none"> Earth and Human Activity 5-ESS3-1, MS-ESS3-3, HS-ESS3-4 Life Sciences (Grades 6-12): <ul style="list-style-type: none"> Biological Evolution: Unity and Diversity HS-LS4-3, HS-LS4-5 Ecosystems: Interactions, Energy, and Dynamics MS-LS2-1, MS-LS2-5, HS-LS2-1, HS-LS2-6, HS-LS2-7 From Molecules to Organisms: Structures and Processes MS-LS1-4, MS-LS1-5 	Mathematics (Grades 3-12) <ul style="list-style-type: none"> Operations & Algebraic Thinking 3-5.OA Quantitative Reasoning HSN.Q.A.2 Abrast and Quantitative Reasoning MP.2 Mathematical modeling MP.4 Strategic mathematic tool use MP.5 Reading: Informational Text (RI) (Grade 5) <ul style="list-style-type: none"> Integration of Knowledge and Ideas RI.5.7, RI.5.9 Speaking and Listening (SL) (Grade 8) <ul style="list-style-type: none"> Comprehension and Collaboration 8.1 Writing (WHST) (Grades 6-12) <ul style="list-style-type: none"> Write informative/explanatory texts 6-8.2, 9-12.2 Research to Build and Present Knowledge 6-8.9, 9-12.9

Lesson Plan	Next Generation Science Standards	Common Core
On the Trail of a Snail	<p>Mathematics (Grades 9-12)</p> <ul style="list-style-type: none"> • Abstract and Quantitative Reasoning MP.2 • Reason quantitatively and use units to solve problems HSN.Q.A.2 <p>Science and Technical Subjects (RST) (Grades 9-12)</p> <ul style="list-style-type: none"> • Integration of Knowledge and Ideas 11-12.7 <p>Writing (WHST) (Grades 9-12)</p> <ul style="list-style-type: none"> • Research to Build and Present Knowledge 9-12.7 	<p>Earth and Space Sciences (Grades 9-12)</p> <ul style="list-style-type: none"> • Earth and Human Activity HS-ESS3-4 <p>Life Sciences (Grades 9-12):</p> <ul style="list-style-type: none"> • Ecosystems: Interactions, Energy, and Dynamics HS-LS2-6, HS-LS2-7
School Survey On Live Plants and Animals in the Classroom	<p>Earth and Space Sciences (Grades 5-8)</p> <ul style="list-style-type: none"> • Earth and Human Activity 5-ESS3-1, MS-ESS3-3 <p>Engineering, Technology, and Applications of Science (Grades 3-8)</p> <ul style="list-style-type: none"> • Engineering Design 3-5-ETS1-1, 3-5-ETS1-2, 3-5-ETS1-3, MS-ETS1-1, MS-ETS1-2, MS-ETS1-3, MS-ETS1-4 <p>Life Sciences (Grades 6-8)</p> <ul style="list-style-type: none"> • Ecosystems: Interactions, Energy, and Dynamics MS-LS2-2 	<p>Mathematics</p> <ul style="list-style-type: none"> • Abrast and Quantitative Reasoning MP.2 • Strategic mathematic tool use MP.5 <p>Reading: Informational Text (RI) (Grade 5)</p> <ul style="list-style-type: none"> • Integration of Knowledge and Ideas 5.7, 5.9 <p>Science & Technical Subjects (RST) (Grades 6-8)</p> <ul style="list-style-type: none"> • Integration of Knowledge and Ideas 6-8.7, 6-8.9 <p>Speaking and Listening (SL) (Grade 8)</p> <ul style="list-style-type: none"> • Comprehension and Collaboration 8.1 • Presentation of Knowledge and Ideas 8.4, 8.5 <p>Writing (W) (Grade 5)</p> <ul style="list-style-type: none"> • Research to Build and Present Knowledge 5.7, 5.8, 5.9 <p>Writing (WHST) (Grades 6-8)</p> <ul style="list-style-type: none"> • Write Informative/Explanatory Texts 6-8.2 • Research to Build and Present Knowledge 6-8.7, 6-8.8, 6-8.9
Stone Soup© Comic Art	<p>Earth and Space Sciences (Grades 6-12)</p> <ul style="list-style-type: none"> • Earth and Human Activity MS-ESS3-3, HS-ESS3-4 <p>Life Sciences (Grades 6-12)</p> <ul style="list-style-type: none"> • Ecosystems: Interactions, Energy, and Dynamics MS-LS2-5, HS-LS2-6, HS-LS2-7 	<p>Reading: Informational Text (RI) (Grades 4-12)</p> <ul style="list-style-type: none"> • Key Ideas and Details 6.2, 7.2, 8.2, 9.2, 10.2 11.2, 12.2, 11.5, 12.5 • Craft and Structure 4.5, 5.6, 6.6, 7.5, 7.6, 8.1, 8.6 • Integration of Knowledge and Ideas 4.7, 5.9, 6.7, 8.7 <p>Writing (W) (Grades 4-12)</p> <ul style="list-style-type: none"> • Text Types and Purpose 4.3, 5.3, 6.3, 7.3, 8.3, 9.3, 10.3, 11.3, 12.3 • Productuon and Distribution of Writing 4.5, 5.5, 6.5, 7.5, 8.5, 9.5, 10.5, 11.5, 12.5 • Research to Build Knowledge 4.7, 5.7, 6.7, 7.7, 8.7, 9.7, 10.7, 11.7, 12.7 <p>Science and Technical Subjects (Grades 6-10)</p> <ul style="list-style-type: none"> • Key Ideas and Details 6.2, 7.2, 8.2, 9.2, 10.2 <p>Speaking and Listening (SL) (Grades 4-5):</p> <ul style="list-style-type: none"> • Comprehension and Collaboration 4.2, 5.2

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Control that Alien Mobile	<p>Earth and Space Sciences (Grade 5)</p> <ul style="list-style-type: none"> Earth and Human Activity 5-ESS3- 1 <p>Engineering, Technology, and Applications of Science (Grades 3-8)</p> <ul style="list-style-type: none"> Engineering Design 3-5- ETS1-1, 3-5- ETS1-2, MS-ETS1- 1, MS-ETS1- 2 <p>Life Sciences (Grades 6-8)</p> <ul style="list-style-type: none"> Ecosystems: Interactions, Energy, and Dynamics MS-LS2- 2 	<p>Speaking and Listening (SL) (Grades 4-8)</p> <ul style="list-style-type: none"> Comprehension and Collaboration: 4.1, 5.1, 6.1, 7.1, 8.1 Presentation of Knowledge and Ideas: 4.4, 5.4, 5.5, 6.5, 7.5, 8.5 <p>Writing (W) (Grades 4-8)</p> <ul style="list-style-type: none"> Text Types and Purposes: 6.2, 7.2, 8.2 Production and distribution of Writing: 4.7, 5.7, 6.7, 7.7, 8.7
How Fast Will it Spread?	<p>Life Sciences (Grades 3-8)</p> <ul style="list-style-type: none"> Biological Evolution: Unity and Diversity 3-LS3-3, 3-LS4-4 Ecosystems: Interactions, Energy, and Dynamics MS-LS2-1, MS-LS2-4, MS-LS2-5 From Molecules to Organisms: Structures and Processes 5-LS1-1 <p>Earth and Space Sciences (Grade 5)</p> <ul style="list-style-type: none"> Earth and Human Activity 5-ESS3 	<p>Reading Informational Text (RI) (Grades 3–6)</p> <ul style="list-style-type: none"> Key Ideas and Details 3.1-3, 4.1-3, 5.1-3, 6.1-3 Craft and Structure 3.4, 3.5, 4.4, 4.5, 5.4,.5.5, 6.4, 6.5, 6.6 Integration of Knowledge and Ideas 6.7 <p>Speaking and Listening (SL) (Grades 3–5)</p> <ul style="list-style-type: none"> Comprehension and Collaboration 3.1, 4.1, 5.1, 6.1
How do we Manage Killer Plants?	<p>Earth and Space Sciences (Grades 6-8)</p> <ul style="list-style-type: none"> Earth and Human Activity MS-ESS3-3, HS-ESS3-4 <p>Life Sciences (Grades 6-8)</p> <ul style="list-style-type: none"> Biological Evolution: Unity and Diversity HS-LS4-3, HS-LS4-5, HS-LS4-6 Ecosystems: Interactions, Energy, and Dynamics MS-LS2-1, MS-LS2-4, HS-LS2-2, HS-LS2-6, HS-LS2-7 From Molecules to Organisms: Structures and Processes MS-LS1-4, MS-LS1-5 	<p>Mathematics</p> <ul style="list-style-type: none"> Abrast and Quantitative Reasoning MP.2 Mathematical modeling MP.4 <p>Science & Technical Subjects (RST) (Grades 6-12)</p> <ul style="list-style-type: none"> Key Ideas and Details 6-8.1, 11-12.1 Integration of Knowledge and Ideas 11-12.8 <p>Writing (W) (Grades 6-12):</p> <ul style="list-style-type: none"> Text Types and Purposes WHST.6-8.1 Research to Build and Present Knowledge WHST.6-8.7, WHST.9-12.7
Loteria Game	<p>Earth and Space Sciences (Grades 6-8)</p> <ul style="list-style-type: none"> Earth and Human Activity MS-ESS3-4, MS-ESS3-3 <p>Life Sciences (Grades 6-8)</p> <ul style="list-style-type: none"> Biological Evolution: Unity and Diversity MS-LS4-4 Ecosystems: Interactions, Energy, and Dynamics MS-LS2-1, MS-LS2-2, MS-LS2-4, MS-LS2-5 From Molecules to Organisms: Structures and Processes MS-LS1-4, MS-LS1-5 	<p>Science & Technical Subjects (RST) (Grades 6-8)</p> <ul style="list-style-type: none"> Key Ideas and Details 6-8.1, 6-8.2 Integration of Knowledge and Ideas 6-8.7, 6-8.9 <p>Speaking and Listening (SL) (Grade 8)</p> <ul style="list-style-type: none"> Comprehension and Collaboration SL.8.1 Presentation of Knowledge and Ideas SL.8.4 <p>Writing (WHST) (Grades 6-8)</p> <ul style="list-style-type: none"> Write informative/explanatory texts 6-8.2 Research to Build and Present Knowledge 6-8.7, 6-8.8, 6-8.9

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<p>Plop! The Invasion Begins</p>	<p>Earth and Space Sciences (Grades 6-8)</p> <ul style="list-style-type: none"> • Earth and Human Activity MS-ESS3-3 <p>Life Sciences (Grades 6-12)</p> <ul style="list-style-type: none"> • Biological Evolution: Unity and Diversity HS-LS4-3, HS-LS4-5 • Ecosystems: Interactions, Energy, and Dynamics MS-LS2-1, MS-LS2-2, MS-LS2-4, HS-LS2-2, HS-LS2-6 • From Molecules to Organisms: Structures and Processes MS-LS1-5 	<p>Mathematics</p> <ul style="list-style-type: none"> • Abrast and Quantitative Reasoning MP.2 • Strategic mathematic tool use MP.5 <p>Reading: Informational Text (RI) (Grade 5)</p> <ul style="list-style-type: none"> • Integration of Knowledge and Ideas 5.9 <p>Science & Technical Subjects (RST) (Grades 6-12)</p> <ul style="list-style-type: none"> • Key Ideas and Details 6-8.1, 11-12.1 • Integration of Knowledge and Ideas 6-8.7, 11-12.7 <p>Speaking and Listening (SL) (Grade 8)</p> <ul style="list-style-type: none"> • Comprehension and Collaboration 8.1 <p>Writing (WHST) (Grades 6-12)</p> <ul style="list-style-type: none"> • Write informative/explanatory texts 6-8.2, 9-12.2 • Research to Build and Present Knowledge 6-8.9, 9-12.9