

## Common Core Standards – Science and Technology Middle School (Grades 9 – 10)

(These are the common-core standards met by the entire Ecology Disrupted unit. If you use only a subset of the resources, fewer standards will be met.)

Bighorn Sheep	Winter Roads	Chesapeake Bay
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<b>Key Ideas and Details</b>			
CCSS.ELA-Literacy.RST.9-10.1	Cite specific textual evidence to support analysis of science and technical texts, attending to the precise details of explanations or descriptions.		
CCSS.ELA-Literacy.RST.9-10.2	Determine the central ideas or conclusions of a text; trace the text's explanation or depiction of a complex process, phenomenon, or concept; provide an accurate summary of the text.		
CCSS.ELA-Literacy.RST.9-10.3	Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions defined in the text.		
<b>Craft and Structure</b>			
CCSS.ELA-Literacy.RST.9-10.4	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 9–10 <i>texts and topics</i> .		
CCSS.ELA-Literacy.RST.9-10.45	Analyze the structure of the relationships among concepts in a text, including relationships among key terms (e.g., <i>force, friction, reaction force, energy</i> ).		
CCSS.ELA-Literacy.RST.9-10.6	Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, defining the question the author seeks to address.		
<b>Integration of Knowledge and Ideas</b>			
CCSS.ELA-Literacy.RST.9-10.7	Translate quantitative or technical information expressed in words in a text into visual form (e.g., a table or chart) and translate information expressed visually or mathematically (e.g., in an equation) into words.		
CCSS.ELA-Literacy.RST.9-10.8	Assess the extent to which the reasoning and evidence in a text support the author's claim or a recommendation for solving a scientific or technical problem.		
CCSS.ELA-Literacy.RST.9-10.9	Compare and contrast findings presented in a text to those from other sources (including their own experiments), noting when the findings support or contradict previous explanations or accounts.		
<b>Range of Reading and Level of Text Complexity</b>			
CCSS.ELA-Literacy.RST.9-10.10	By the end of grade 10, read and comprehend science/technical texts in the grades 9–10 text complexity band independently and proficiently.		

<b>Mathematics Standards</b>		<b>Bighorn Sheep</b>	<b>Winter Roads</b>	<b>Chesapeake Bay</b>
CCSS.Math.Content.HSS-ID.A.1	Represent data with plots on the real number line (dot plots, histograms, and box plots).			
CCSS.Math.Content.HSS-ID.A.3	Interpret differences in shape, center, and spread in the context of the data sets, accounting for possible effects of extreme data points (outliers).			