

Wolf Research Concepts Educational Alignment

MINN	ESOTA S	Science St	andards*			
Grade	Strand	Substrand	Standard	Benchmark	Curriculum	Assessment
				Benchmark 9.1.1.1.1 Explain the implications of the assumption that the rules of the universe are the same everywhere and these rules can be discovered by careful and systematic investigation.	Unit 3 – Defining Wolf Research Wolf Research in MN <u>http://www.youtube.com/watch?</u> <u>v=J-</u> <u>MvI1i4IAg&feature=player_emb</u> <u>edded</u> NATURE The Wolf That Changed America Wolf Expert PBS <u>http://www.youtube.com/watch?</u> <u>v=iyCZqkX-</u>	Assessment Unit 3 Assignment : Understandi ng Wolf Research
					<pre>f 8&feature=player embedded Dan NcNaulty "How do wolves select elk prey?" http://www.youtube.com/watch? v=jae2UeFw3yo&feature=related "Alpha" wolf? http://www.youtube.com/watch? v=tNtFgdwTsbU&feature=related Wolf Ethology Quiz IWC http://www.youtube.com/watch? v=hRcuFN6qHcg</pre>	
					Wolf Dominance Behavior <u>http://www.youtube.com/watch?</u> <u>v=wIRVpLaCDS0&feature=relate</u> <u>d</u> Pack Dynamics at the IWC <u>http://www.youtube.com/watch?</u>	
					v=eEkirxINn5s Trophic Cascade http://www.youtube.com/watch? v=08BV0VCn1JU	
					Dan Stark <u>http://www.youtube.com/watch?</u> <u>v=OoKi -jPP3g&feature=related</u>	
					Dr. Dave Mech Why do people see wolves as good or bad? <u>http://www.youtube.com/w</u> <u>atch?v=rpBDIwaiGeQ</u>	
					Wyoming wolf wars: Debate over delisting wolves <u>http://www.youtube.com/watch?</u>	

Network 3. 1. Natural 9.1.1.2.3 Unit 2 - Wolf 101 Scientific method Singer Calmed Singer					v=Hd9wQm2LcH0	
debate article http://www.emotion_drives_the 						
1 1.1.2.2 Unit 4 - Research Suffers/ C41(A1/ Vick/when.method.ndfws.the wolf debate research suffers/ C41(A1/ Unit 4 - Research Methods 1 9.1.1.2.2 Unit 4 - Research Methods 0 Organizing a Research Project proposed by others by examining and comparing proposed by others by examining and comparing pointing out statements that go beyond the scientific explanations. Unit 4 - Research Methods Scientific Method Thinking, How It Works Scientific Method Thinking, How It Works Scientific Method Thinking, How It Works Scientific Method Thinking, How It Works Scientific Method Thinking, How It Works Scientific Method Thinking, How It Works 1 Nethod Thinking, How It Works Scientific Method Thinking, How It Works Scientific Method Thinking, How It Works 1 Nethod Thinking, How It Works Scientific Method Thinking, How It Works Scientific Method Thinking, How It Works 1 Nethod Thinking, How It Works Scientific Method Thinking, How It Works Scientific Method Thinking, How It Works 1 Nethod Thinking, How It Works Scientific Method Thinking, How It Works Scientific Method Thinking, How It Works 1 Nethod Thinking, How It Works Scientific Method Thinking, How It Works Scientific Method Thinking, How It Works 1 Nethod Thinking, How It Works Scientific Method Thinking, How It Works Scientific Method Thinking, How It Works 1 <td></td> <td></td> <td></td> <td></td> <td>When emotion drives the wolf</td> <td></td>					When emotion drives the wolf	
1 1. Natural 9.1.1.2.2 Unit 2 - Works 101 Unit 2 - Works 101 2 9.1.1.2.3 Unit 4 - Research Methods Organizing a Research Project 2 0.0000 Organizing a Research Project Structure of the Scientific Method Scientific Method Scientific Method 2 0.0000 Scientific Method Thinking, How It Works Scientific Method Thinking, How It Works 3 1. Natural 9.1.1.2.4 Use primary Sources or scientific Method Thinking, How It Works associated methodologies are used by scientific method-thinking. 9.1.1.2.4 Use primary Sources or scientific Method Thinking, How It Works associated methodologies are used by scientific method-thinking. 3 1. Natural 9.1.1.2.4 Use primary Sources or scientific Method Thinking and Understand Method Scientific Method Thinking. Unit 2 - Works associated methodologies are used by scientific method-thinking. 9 9.1.1.2.4 Use primary Sources or scientific Method Scientific Method Thinking. Scientific Method Thinking. Scientific Method Thinking. 9 9.1.1.2.4 Use primary Sources 9.1.1.2.4 Use primary Sources Scientific Method Scientific Method Scientific Method Scientific Method Method Method Method Method Scientific Method Met						
9.1.1.2.2 C41/L41/ Unit 4 - Research Methods Valuate the explanations proposed by others by examining and comparing evidence, identifying faulty reasoning, pointing out statements that g beyond the scientific. Unit 4 - Research Methods Structure of the Scientific Method Structure of the Scientific Method Structure of the Scientific Method Scientific Method Thinking, How statements that g beyond the scientific explanations. Scientific Method Thinking, How Tt Works Scientific Method Thinking- how:fi-works-ail66312 Scientific method thinking- therative scientific explanations. 9.1.1.2.4 Use primary sources or scientific networks and logic used in a lifer of reasoning to judge the validity of a claim. Unit 2 - Wolf 101 1. Netural and weight how different to scientific rechnolog Science, Technolog y, N 1. Netural and suggestion and their associated methodologies are used by scientists for investigations in different fignineert ng, Mathemat is, and subsystems, and identification system and is, and other systems, and identification subsystems, and identification other systems, and identification subsystems, and identification subsystems, and identification subsystems, and identification subsystems, and identification system and iteract with other systems, and identification subsystems, and identi						
9.1.1.2.2 Unit 4 - Research Methods 0rganizing a Research Project Organizing a Research Project 0rganizing a Research Project Structure of the Scientific 0rganizing a Research Methods Organizing a Research Methods 0rganizing a Research Methods Organizing a Research Methods 0rganizing a Research Methods Nuclus a Research Methods 0rganizing a Research Method Thinking, How I Nuclus a Research Methods <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Evaluate the explanations proposed by others by examining and companding out statements that golectifically acceptable evidence, and observed the solentifically acceptable evidence, and solentifically acceptable evidence, and solentific explanations.Organizing a Research Project Structure of the Scientific Method the Works-allell.com/conte the context of the Scientific Method the Works-all6812Scientific Method the Works-all681211.11.11.11.11.11.11.111.11.11.11.11.11.111.11.11.11.11.11.11.121.11.11.11.11.12.11.12.13.11.11.11.11.11.12.11.11.12.11.11.11.11.11.11.11.13.11.11.11.11.12.11.13.1<				9.1.1.2.2		
3. 1. Natural 3. 1. Natural <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
Structure of the Scientific wexaming and comparing widence, identifying faulty reasoning, pointing out stetements that scientifically acceptable evidence, and suggesting alternative scientific explanations.Structure of the Scientific Method http://teacher.pas.rochester.edu http://teacher.pas.rochester.edu http://www.suite101.com/conte nt/scientific.method-thinking- how-it.works-al16812Scientific explanations.Scientific Method Thinking, How It Works scientific explanations.Scientific Method Thinking- how-it.works-al16812Scientific explanations.9.1.1.2.3 Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim.Scientific method-thinking- how-it.works-al168123.1. Natural and designed scientific writings to identify and explainhow different types of questions and here associated methodologies are used by scientists or investigations in different types of specifications of puddentife and other systems, inter-at with a subsystems, pidentificationships to thindertificationships to thic//www.wif.cr					Organizing a Research Project	
examining and comparing evidence, identifying faulty reasoning, pointing out statements that go beyond the scientifically acceptable evidence, and suggesting alternative scientific explanations.Method http://teacher.pas.rochester.edu /dby.labs/appendixe/ html9.1.12.3 Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim.Scientific Method Thinking, How It Works http://wwr.suite101.com/conte nt/scientificmethod-thinking- how-it-works-al168129.1.12.3 Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim.Method scientific writings to identify and explain how different types of questions in different disciplines.Unit 2 - Wolf 101 scientific writings to investigations in disciplines.13. Interactio ns Among Science Technolog y hat at ct my man and interact with a go scientific writing a go scientists for investigations in disciplines.Unit 2 - Wolf 101 thit at scientific writing a system ard modiaries and subsystems, that/charlings in their associated mutoarial subsystems, modiaries and subsystems, man and interact with a subsystems, man and subsystems, pictor systems, pictor					Structure of the Scientific	
Image: comparing within a many sourcesttp://teacher.pas.rochester.eduidentifying faulty reasoning, pointing out statements that go beyond the scientific ally acceptable alternative scientific explanations.Scientific Method Thinking, How It Works scientific method-thinking, How It Works-all6612Scientific method-thinking- the scientific explanations.Scientific method-thinking- how-it-works-all6612Scientific method-thinking- the scientific explanations.Scientific method-thinking- how-it-works-all6612Scientific method-thinking- the scientific explanations.Scientific method-thinking- how-it-works-all6612Scientific explanations.9.1.1.2.3 Identify the critical assumptions and logic used in a line of reasoning voidetty and explain how different types of questions and their associated methodologies are used by scientific writing sto identify and explain how different types of questions and here associated methodologies sciencits for investigations in different types of sciencies are used by scientists for investigations in different types of sciencies are used by scientists for investigations of specifications of specifications of specifications of specifications of specifications for specifications for specifications of specifications of specifications of specifications of specifications of specifications of specifications of specifications of specifications of specifications of publicationships to that-zivew.wolf.corg/volves/lear uback/das/flac.aspUnit 2 Assignment i Unit 3 Assignment i Understand i goint						
evidence, i identifying faulty identifying faulty pointing out pointing out statements that go beyond the scientifically acceptable evidence, and suggesting alternative alternative scientific scientific 9.1.1.2.3 Identify the critical assumptions and logic used in a logic used in a scientific validity of a claim. 9.1.1.2.4 Use primary sources or scientific validity of a claim. 9.1.1.2.4 Use primary sources or scientific or scientific withings to identify and explain how different bicopies and designed system, and system, are used by scientists for investigations in different different bicologies are used by system, fitto: system, fitto system, fitto: subsystems, regionations of bicopies system, fitto system, fitto: </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
3. 1. Natural 9.1.1.2.3 Jierrentic 9.1.1.2.4 Use 9.1.1.2.3 Identify the critically acceptable explemations. 9.1.1.2.3 9.1.1.2.4 Use 9.1.1.2.3 Identify the critical explanations. 9.1.1.2.4 9.1.1.2.4 Use 9.1.1.2.4 Identify the critical explanations. 9.1.1.2.4 9.1.1.2.4 Use 9.1.1.2.4 Identify the critical explanations. 9.1.1.2.4 9.1.1.2.4 Use 9.1.1.2.4 Identify and explanations. 9.1.1.2.4 9.1.1.2.4 Use primary sources or scientific writings to identify and explain how different types of questions and their associated methodologies are used by scientists for investigations in disciplines. Unit 2 - Wolf 101 Unit 2 - Assignment explain four disciplines. 9.1.1.2.4 Use made up of that act writing sto identify and explain now different types of questions and their associated methodologies are used by scientists for investigations in disciplines. Unit 2 - Wolf 101 Unit 2 - Assignment explanation of their associated methodologies are used by scientists and subsystems, redictations of that act writin a subsystems, redictations of their and disciplines and subsystems, redictations of their and identification of ther system, noluding uses the other system, noludidentification on the syste				evidence,		
align 1. Natural 1. Natural 9.1.1.2.4 Use primary sources or scientific writings to judge the validity of a claim. 9.1.1.2.4 Use primary sources or scientific writings to judge the validity of a claim. 9.1.1.2.4 Use primary sources or scientific writings to judge the validity of a claim. 9.1.1.2.4 Use primary sources or scientific writings to judge the validity of a claim. 9.1.1.2.4 Use primary sources or scientific writings to judge the validity of a claim. 9.1.1.2.4 Use primary sources or scientific writings to judge the validity of a claim. 9.1.1.2.4 Use primary sources or scientific writings to judge the validity of a claim. 9.1.1.2.4 Use primary sources or scientific writings to judge the validity of a claim. 9.1.1.2.4 Use primary sources or scientific writings to judge the validity of a claim. 9.1.1.2.4 Use primary sources or scientific writings to judge the validity of a claim. 9.1.1.2.4 Use primary sources or scientific writings to judge the validity of a claim. Unit 2 - Wolf 101 Unit 2 Assignment disciplines. 9.1.1.2.5 was are used by scientists for investigations in different types of questions and their associated methodologies are used by scientists for including specifications of boundaries and subsystems, read writin a site start, writing and identifications of boundaries and production or onugalates and producting specification of boundaries and producting specification of ther systems, and identifications of boundaries and producting specifications of boundaries and producting specifications of boundaries and producting specificating andidentification of boundaries and producting spe					<u>html</u>	
3. 1. Natural Interaction scientific explanations and logic used in a line of reasoning to judge the validity of a claim. 9.1.1.2.4 Use primary sources or scientific explanations and logic used in a line of reasoning to judge the validity of a claim. Unit 2 - Wolf 101 Unit 2 Asignment unit 2 					Scientific Mathed Thinking How	
3. 1. Natural not designed science, regineering g, regineering g, mg, mg, mg, mg, mg, mg, mg, mg, mg,						
scientifically acceptable evidence, and suggesting alternative scientific explanations. nt/scientific-method-thinking: how-it-works-al16812 9.1.1.2.3 Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim. 9.1.1.2.4 Use primary sources or scientific writings to identify and explain how different types of questions and their associated methodologies are used by scientists for investigations in different scientific system and ng, system and ng, system and ng, system and ng, system and ng, system and ng, system and ng, system and naid dentifrations of partices Unit 2 - Wolf 101 Unit 2 Assignment : Wolf 101						
Image: series of the system series					nt/scientific-method-thinking-	
3. 1. Natural 9.1.1.2.4 Use primary sources or scientific writings to iudentify and explain how different types of questions and their associated ms Among Science, Technolog Components system and Engineeri ng, mg, Mathematika, and ther associated ms Among System and networks and ther associated ins Among Science, Technolog to that act subsystems, Norther associated ms Among System and interact with in a system and interaction parameters. Unit 2 - Wolf 101 Unit 2 - Wolf 101 3. 1. Natural and designed or systems, ng, functional and designed interaction					how-it-works-a116812	
alternative scientific explanations. alternative scientific explanations. alternative scientific explanations. 9.1.1.2.3 Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim. 9.1.1.2.4 Use primary sources or scientific writings to identify and explain how different types of questions and their associated methodologies are used by scientists for investigations in disciplines. 9.1.1.2.4 Use primary sources or scientific writings to identify and explain how different disciplines. Unit 2 - Wolf 101 Unit 2 3. 1. Natural and designed systems are used by scientists for investigations in different disciplines. Unit 2 - Wolf 101 Unit 2 Mathemat ing, ng, mg 1. Natural and designed system an interact with and interact with other 9.1.3.1.1 Unit 2 - Wolf 101 Unit 2 Assignment : Wolf 101 Quiz Wolf Predation on Ungulates n/basic/faqs/faq.asp Unit 3 Assignment : Understandi ny Wolf						
3. 1. Natural and designed systems are used by scientists for investigations in different disciplines. 9.1.1.2.1 Unit 2 - Wolf 101 Unit 2 3. 1. Natural and designed systems are used by scientists for investigations in different disciplines. 9.1.3.1.1 Unit 2 - Wolf 101 Unit 2 4. 0.000 Predation on Ungulates for interaction is Among Science, orgeneration of the systems, ng, ng, system and interact with in associated mathematic interaction is Among system and disciplines. Unit 2 - Wolf 101 Unit 2 3. 1. Natural and designed systems, ng, ng, system and interact with in associated mathematic interaction in components on the systems, ng, ng, system and interact with in a system and interact with in as other FAQs About Wolves Unit 3 4. 0.000 Predation on Ungulates and interact with is is, and other Unit 3 Assignment interaction on Ungulates and interaction interaction on Ungulates and interaction on the systems, no ther systems, no the systems, nothemathematic systemathematic systems, no the s						
3.1. Natural and designed Science, Technolog y, Engineeri ng, mg, mg, mg, mg, mg, mg, mg,1. Natural and designed system and interact with identification9.1.1.2.3 Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim.9.1.1.2.4 Use primary sources or scientific writings to identify and explain how different disciplines.9.1.1.2.4 Use primary sources or scientific writings to identify and explain how different disciplines.Unit 2 - Wolf 101Unit 2 Assignment : Wolf 101 Quiz3.1. Natural and designed systems are made up of components that act writin a system and interact with in generat mg, mg, mate to therUnit 2 - Wolf 101 Poscience, systems, relationships to other systems, and identification g pointersUnit 2 Assignment : Wolf 101 Quiz Unit 3 Sasignment : Wolf 101 Quiz Unit 3 Molf Predation on Ungulates http://www.wolf.org/wolves/lear n/basic/flag.flag.aspUnit 3 Molf Predation on Ungulates http://www.wolf.org/wolves/lear industed the systems, and identification g powolfUnit 3 Molf Predation on Ungulates http://www.wolf.org/wolves/lear industed powolf						
Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim.Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim.Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim.Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim.Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim.Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim.Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim.Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim.Identify the critical assumptions and logic used in a logic used in a scientists for investigations in different disciplines.Identify the reasonitation and designed specifications of specifications of boundaries and system, arelationships to other systems, and identification pUnit 2 - Wolf 101Unit 2 Assignment : Wolf 101 Quiz Unit 3 Assignment : Wolf predation on Ungulates http://www.wolf.org/wolves/lear n/basic/biology/ungulate_dep.as p3.1. Natural and designed systems, and identifications of boundaries and uther astic/biology/ungulate_dep.as pUnit 3 Assignment : Unit 3 mystems, and identification on Ungulates http://www.wolf.org/wolves/lear n/basic/biology/ungulate				explanations.		
Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim.Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim.Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim.Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim.Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim.Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim.Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim.Identify the critical assumptions and logic used in a line of reasoning to judge the validity of a claim.Identify the critical assumptions and logic used in a logic used in a scientists for investigations in different disciplines.Identify the reasonitation and designed specifications of specifications of boundaries and system, arelationships to other systems, and identification pUnit 2 - Wolf 101Unit 2 Assignment : Wolf 101 Quiz Unit 3 Assignment : Wolf predation on Ungulates http://www.wolf.org/wolves/lear n/basic/biology/ungulate_dep.as p3.1. Natural and designed systems, and identifications of boundaries and uther astic/biology/ungulate_dep.as pUnit 3 Assignment : Unit 3 mystems, and identification on Ungulates http://www.wolf.org/wolves/lear n/basic/biology/ungulate						
 asumptions and logic used in a line of reasoning to judge the validity of a claim. 9.1.1.2.4 Use primary sources or scientific writings to identify and explain how different types of questions and their associated methodologies are used by scientists for investigations in different disciplines. 1. Natural and designed systems are system, rechnolog y, that act within a systems, ng, mate up of rechnolog y, that act within a systems, ng, mate up of their act with interact with interact with interact with other systems, and identifyand 1. Natural and designed systems are system, ng, mate up of components systems, and identifyand subsystems, and identifyand 1. Natural and designed systems are system, and identifyand 1. Natural and designed systems, and identifyand 1. Natural and identifyand 1. Natura						
3.1. Natural and designed s Science, Technolog y, Engineeri ng, ng, mathemat ics, and ics, and ics, and ics, and1. Natural set action set action set action assumptions and logic used in a line of reasoning to judge the yalidity of a claim.Unit 2 - Wolf 101Unit 2 Assignment : Wolf Predation on Ungulates http://www.wolf.org/wolves/lear n/basic/fags/fag.asp3.1. Natural and designed systems are made up of increase system and interact with of the tart with of the tart with1. Natural systems, and identification pUnit 2 - Wolf 101Unit 2 Assignment : Wolf 101 Unit 2 Assignment : Unit 3 Assignment : Understandi ng wolf						
Image: Science, Science						
to judge the validity of a claim.to judge the validity of a claim.to judge the validity of a claim.9.1.1.2.4 Use primary sources or scientific writings to identify and explain how different types of questions and their associated methodologies are used by scientists for investigations in different disciplines.9.1.1.2.4 Use primary sources or scientific writings to identify and explain how different types of questions and different disciplines.9.1.1.2 (Just primary sources or scientific writings to identify and explain how different types of questions and different disciplines.Unit 2 - Wolf 101Unit 2 Assignment : Wolf 1011. Natural and designed system are made up of Crechnolog Y, Hat act Engineeri ng, Mathemat ics, and1. Natural system and other9.1.3.1.1Unit 2 - Wolf 101Unit 2 Assignment : Wolf 101Wolf Predation on Ungulates http://www.wolf.org/wolves/lear n/basic/fag./fag.aspUnit 3 Assignment : Unit 3 Assignment : Molfolog/ungulate dep.as p				logic used in a		
3.1. Natural and designed science, Technolog V, Linstractio ng, mg, mg, mg, mg, mg, mg, mg, mathemat1. Natural stress9.1.1.2.4 Use primary sources or scientific writings to identify and explain how different types of questions and their associated methodologies are used by scientists for investigations in disciplines.9.1.1.2.4 Use primary sources or scientific writings to identify and explain how different types of questions and their associated methodologies are used by scientists for investigations in disciplines.Unit 2 - Wolf 101Unit 2 Assignment : Wolf 101 Quiz3.1. Natural and designed systems are made up of that act thin a system and interact within a is system and including including specifications of other within a subsystems, relationships to and identification pUnit 2 - Wolf 101 Unit 2 Mult 2 - Wolf 101 Unit 2 Assignment : Wolf 101 QuizUnit 3 n/basic/fags/faq.aspUnit 3 Assignment : Unit 3 Assignment : Unit 3 Assignment interact with inderstandi and identification pUnit 3 Assignment i understandi nybasic/biology/ungulate_dep.as						
Image: claim.9.1.1.2.4 Use primary sources or scientific writings to identify and explain how different types of questions and their associated methodologies are used by scientists for investigations in different disciplines.9.1.1.2.4 Use primary sources or scientific writings to identify and explain how different types of questions and their associated methodologies are used by scientists for investigations in different disciplines.9.1.3.1.1 Unit 2 - Wolf 101Unit 2 Assignment : Wolf 2013. Interactio ns Among Science, Technolog (omponents y, that act ng, ng, made up of that act within a system and ng, made up of that act within a system and interact with otherUnit 2 - Wolf 101 Unit 2 - Wolf 101Unit 2 Assignment : Wolf 101 QuizWolf Predation on Ungulates http://www.wolf.org/wolves/lear n/basic/faqs/faq.aspUnit 3 Assignment : Unit 3 Assignment : Unit 3 Molesrchology/ungulate dep.as and identification gUnit 3 Assignment ing and destification and identification						
3.1. Natural explain how different types of questions and their associated methodologies are used by scientists for investigations in different disciplines.Unit 2Unit 23.1. Natural and designed systems are made up of that act system and eng, ng, mg, mg, mg, mate up of hat act1. Natural system and interact with other9.1.3.1.1 system and systems, relationships to other systems, and detificationUnit 2 - Wolf 101 PAQs About Wolves http://www.wolf.org/wolves/lear n/basic/biology/ungulate_dep.as pUnit 2 Assignment i Unit 3 Assignment i understandi ng Wolf						
Image: space of the system spa				ciuini		
Image: space of the system o				9.1.1.2.4 Use		
Image: space of the system and graph of the system and the system and graph of the sys						
3.1. Natural esplain how different types of questions and their associated methodologies are used by scientists for investigations in different disciplines.Unit 2 - Wolf 101Unit 2 Assignment : Wolf 1013.1. Natural and designed systems are Science, Technolog y, that act ng, mg, <br< td=""><td></td><td></td><td></td><td></td><td></td><td></td></br<>						
Image: space of the system o						
Image: space of the system o						
Image: height of the second						
Image: specifications of y, rechnolog1. Natural and designed systems are systems are systems, ng, mg, <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
are used by scientists for investigations in different 						
Image: secient sts for investigations in different disciplines.scientists for investigations in different disciplines.scientists for investigations in different disciplines.scientists for investigations in different disciplines.scientist for investigations in different disciplines.scientist for investigations in different disciplines.scientist for investigations in different disciplines.scientist for investigations in different disciplines.scientist for investigations in different disciplines.scientist for inti 2Unit 23.1. Natural and designed systems are Science, Technolog y, that act9.1.3.1.1 Describe a system, specifications of n/basic/faqs/faq.aspUnit 2Assignment QuizVolf 101 Upit 3Unit 3 Assignment Http://www.wolf.org/wolves/lear n/basic/biology/ungulates n/basic/biology/ungulate_dep.asUnit 3 AssignmentNathemat ics, andotherother systems, and identificationMother pUnderstandi ng Wolf						
Image: Image index i						
Image: system and interact with other system, and identification pUnit 2 - Wolf 101Unit 2Mathemat ics, and1. Natural other9.1.3.1.1Unit 2 - Wolf 101Unit 2Joint 2and designed Describe aSignmentSignmentScience, made up ofincludinghttp://www.wolf.org/wolves/learQuizTechnologcomponentsspecifications ofn/basic/faq.aspUnit 3Volf Predation on UngulatesAssignmentSignmentSignmentNathematinteract withother systems,n/basic/biology/ungulate dep.asUnderstandiNolfNathematotherand identificationDNolf						
3.1. Natural9.1.3.1.1Unit 2 – Wolf 101Unit 2Interactioand designedDescribe aAssignmentns Amongsystems aresystem,FAQs About Wolves: Wolf 101Science,made up ofincludinghttp://www.wolf.org/wolves/learQuizTechnologcomponentsspecifications ofn/basic/faq.aspUnit 3y,that actboundaries andUnit 3Unit 3Engineeriwithin asubsystems,Wolf Predation on UngulatesAssignmentng,system andrelationships tohttp://www.wolf.org/wolves/lear:Mathematinteract withother systems,n/basic/biology/ungulate dep.asUnderstandiics, andotherand identificationpng Wolf				different		
Interactioand designedDescribe aAssignmentns Amongsystems aresystem,FAQs About Wolves: Wolf 101Science,made up ofincludinghttp://www.wolf.org/wolves/learQuizTechnologcomponentsspecifications ofn/basic/faq.aspUnit 3y,that actboundaries andUnit 3Engineeriwithin asubsystems,Wolf Predation on UngulatesAssignmentng,system andrelationships tohttp://www.wolf.org/wolves/lear:Mathematinteract withother systems,n/basic/biology/ungulate_dep.asUnderstanding, wolfotherand identificationpunderstandi						
ns Among Science, Technologsystems are made up of componentssystem, including specifications of boundaries and EngineeriFAQs About Wolves http://www.wolf.org/wolves/lear n/basic/faqs/faq.asp: Wolf 101 QuizV,that act that actboundaries and subsystems, relationships to Ather and interact with ics, andWolf Predation on Ungulates http://www.wolf.org/wolves/lear n/basic/biology/ungulate_dep.as pUnit 3 unit 3 Unit 3 Unit 3 Unit 3 Unit 3 Molf Predation on Ungulates					Unit 2 – Wolf 101	
Science, Technologmade up of components y,including specifications of boundaries and mg,<					FAOs About Wolves	
Technolog y,components that actspecifications of boundaries andn/basic/faqs/faq.aspUnit 3y,that actboundaries andUnit 3Engineeriwithin asubsystems,Wolf Predation on UngulatesAssignmentng,system andrelationships tohttp://www.wolf.org/wolves/lear:Mathematinteract withotherand identificationpuotherand identificationp						
Engineeriwithin asubsystems,Wolf Predation on UngulatesAssignmentng,system andrelationships to http://www.wolf.org/wolves/lear :Mathematinteract withother systems, n/basic/biology/ungulate dep.as Understandiics, andotherand identification p Image: transmitten of transmitten			components	specifications of		_
ng, Mathematsystem and interact with otherrelationships to other systems, and identification<						
Mathematinteract withother systems,n/basic/biology/ungulate dep.asUnderstandiics, andotherand identificationpng Wolf		-				Assignment
ics, and other and identification p ng Wolf						: Understandi
		Society	systems.	of inputs and		Research

		expected	Wolf Recovery with Dr. Dave	
		outputs. <i>For example:</i> A	Mech http://www.youtube.com/watch?	
		power plant or	v=JPDnz48BDqM&feature=relate	
		ecosystem.	<u>d</u>	
		9.1.3.1.2 Identify properties of a system that are	Unit 3 – Defining Wolf Research (see above)	
		different from those of its parts but appear		
		because of the interaction of those parts.		
		9.1.3.1.3 Describe how positive and/or negative		
		feedback occur		
	3. Science	in systems. 9.1.3.3.1	Unit 1 - Do Your Values	Unit 1
	and engineering	Describe how values and	Determine How You Think?	Assignment : My Pre-
	operate in the context	constraints affect science and	Unit 4 – Research Methods	Course Values
	of society and both	engineering.	Unit 6 - Reflection	Journal
	influence and are			Unit 4 Assignment
	influenced by			: Relevance
	this context.			of the Scientific Method
				Unit 6
				Assignment : My Post-
				Course Values
		9.1.3.3.3	Unit 3 – Defining Wolf Research	Journal Unit 3
		Describe how scientific	(see above)	Assignment
		investigations and engineering		Understandi ng Wolf
		processes require multi-		Research
		disciplinary contributions and efforts.		
	4. Science, technology,	9.1.3.4.1 Describe how	Unit 4 – Research Methods	Unit 4 Assignment
	engineering and mathematics	technological problems and advances often		: Relevance of the Scientific
	rely on each other to	create a demand for new scientific		Method
	enhance knowledge	knowledge, improved		
	and	mathematics and		
	understandin g.	new technologies.		

3. Earth and	4. Human Interactio	1. People consider	9.3.4.1.1 Analyze the	Unit 3 – Defining Wolf Research	Unit 3 Assignment
Space Science	ns with Earth Systems	potential benefits, costs and risks to make decisions on how they interact with natural systems.	benefits, costs, risks and tradeoffs associated with natural hazards, including the selection of land use and engineering mitigation.	Relationships with Humans: Dan Stark <u>http://www.youtube.com/watch?</u> <u>v=OoKi -jPP3g&feature=related</u> Dr. Dave Mech Why do people see wolves as good or bad? <u>http://www.youtube.com/w</u> <u>atch?v=rpBDIwaiGeQ</u>	: Understandi ng Wolf Research
				Wyoming wolf wars: Debate over delisting wolves <u>http://www.youtube.com/watch?</u> <u>v=Hd9wQm2LcH0</u>	
				When emotion drives the wolf debate article <u>http://www.newwest.net/topic/a</u> <u>rticle/when emotion drives the</u> <u>wolf debate research suffers/</u> <u>C41/L41/</u>	
4. Life Science	2. Interdepe n-dence Among Living Systems	1. The interrelations hip and interdepende nce of organisms generate dynamic biological communities in ecosystems.	9.4.2.1.2 Explain how ecosystems can change as a result of the introduction of one or more new species.	Unit 3 – Defining Wolf Research Biology & Ecology NATURE The Wolf That Changed America Wolf Expert PBS <u>http://www.youtube.com/watch?</u> <u>v=iyCZqkX-</u> <u>f &&feature=player_embedded</u> Trophic Cascade <u>http://www.youtube.com/watch?</u>	Unit 3 Assignment : Understandi ng Wolf Research Forum Posts
	4. Human Interactio ns with Living Systems	1. Human activity has consequence s on living organisms and ecosystems.	9.4.4.1.2 Describe the social, economic and ecological risks and benefits of changing a natural ecosystem as a result of human activity.	<pre>v=08BV0VCn1JU Unit 3 - Defining Wolf Research Biology & Ecology NATURE The Wolf That Changed America Wolf Expert PBS <u>http://www.youtube.com/watch?</u> v=iyCZqkX- f 8&feature=player_embedded Trophic Cascade <u>http://www.youtube.com/watch?</u> v=08BV0VCn1JU</pre>	Unit 3 Assignment : Understandi ng Wolf Research

*These standards meet or exceed requirements for respective national education standards.

	ISTE Standards								
Grade	Strand	Substrand	Standard	Benchmark	Curriculum	Assessment			
9	1.	Students		apply existing	Wolf Research Concepts News	Forum Posts			
10	Creativit	demonstr		knowledge to	Forum				
11	y and	ate		generate new		Unit 5			
12	Innovatio	creative		ideas, products,	Unit 5 – Develop A Proposal	Assignment			
	n	thinking,		or processes.		: Wolf			
		construct		b. create original	Wolf Research Project	Research			
		knowledg		works as a	Requirements & Instructions	Concepts			
		e, and		means of		Forum			
		develop		personal or					

· · · · · ·		Ι		1	
		innovative products and processes using technolog y. Students:	group expression.		
C cu a C	2. Communi cation ind Collabora ion	Students use digital media and environm ents to communic ate and work collaborati vely, including at a distance, to support individual learning and contribute to the learning of others.	a. interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media.	Wolf Research Concepts News Forum	Forum Posts
			b. communicate information and ideas effectively to multiple audiences using a variety of media and formats.	Wolf Research Concepts News Forum Unit 5 – Develop A Proposal Wolf Research Project Requirements & Instructions	Forum Posts Unit 5 Assignment : Wolf Research Concepts Forum
a II O F	Research Ind Informati In Iuency	Students apply digital tools to gather, evaluate, and use informatio n.	plan strategies to guide inquiry. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media. evaluate and select information sources and digital tools based on the appropriateness to specific tasks. process data and report results.	Unit 5 – Develop A Proposal Wolf Research Project Requirements & Instructions	Unit 5 Assignment : Wolf Research Concepts Forum
T P S a	L. Critical Thinking, Problem Solving, and Decision	Students use critical thinking skills to plan and conduct	identify and define authentic problems and significant questions for investigation. b. plan and	Unit 5 – Develop A Proposal Wolf Research Project Requirements & Instructions	Unit 5 Assignment : Wolf Research Concepts Forum

Making	research, manage projects, solve problems, and make informed decisions using appropriat e digital tools and resources.		manage activities to develop a solution or complete a project.		
6. Technolo gy Operatio ns and Concepts	Students demonstr ate a sound understan ding of technolog y concepts, systems, and operations	a. understand and use technology systems.	b. select and use applications effectively and productively.	Unit 5 – Develop A Proposal Wolf Research Project Requirements & Instructions	Unit 5 Assignment : Wolf Research Concepts Forum