

Standards Correlations

Fisheries and Wildlife Management (8041)

Task	SOL Correlations	AFNR Correlations
Demonstrating Personal Qualities and Abilities		
Demonstrate creativity and innovation.	<p>English: 6.1, 6.3, 6.4, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8</p> <p>History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1</p> <p>Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 8.2, 8.4, 8.6, 8.7, 8.11, 8.12, 8.17, 8.18, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, AII.9, COM.1, COM.3, COM.4, COM.5, COM.8, DM.7, DM.1*, DM.10, DM.2*, DM.3*, PS.3*, PS.4*, PS.7*, PS.9*, PS.10*</p> <p>Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1</p>	
Demonstrate critical thinking and problem solving.	<p>English: 6.1, 6.3, 6.4, 6.5, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.5, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.5, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8</p> <p>History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1</p> <p>Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.10, 6.11, 7.2, 7.3, 7.8, 7.12, 7.13, 8.2, 8.4, 8.8, 8.9, 8.10, 8.11, A.8, A.9, G.1, G.13, G.14, AFDA.3, AFDA.5, AFDA.8, AII.9,</p>	

Task	SOL Correlations	AFNR Correlations
	AII.10, AII.11, COM.1, COM.3, COM.4, COM.5, COM.8, DM.4, DM.7, DM.1*, DM.2*, DM.3*, DM.9*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1	
Demonstrate initiative and self-direction.	English: 6.1, 6.4, 6.6, 6.7, 6.9, 7.1, 7.4, 7.6, 7.7, 7.9, 8.1, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate integrity.	English: 6.1, 7.1, 8.1, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate work ethic.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1	
Demonstrating Interpersonal Skills		
Demonstrate conflict-resolution skills.	English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.4, 8.6, 8.7, 8.9, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, VUS.1	
Demonstrate listening and speaking skills.	English: 6.1, 6.2, 6.4, 6.6, 7.1, 7.2, 7.4, 7.6, 8.1, 8.2, 8.4, 8.6, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate respect for diversity.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1	

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	History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, USII.9, VUS.1, VUS.13, WG.1, WHI.1, WHII.1	
Demonstrate customer service skills.	English: 6.1, 6.4, 6.7, 7.1, 7.4, 7.7, 8.1, 8.4, 8.7, 9.1, 9.5, 9.6, 10.1, 10.5, 10.6, 11.1, 11.5, 11.6, 12.1, 12.5, 12.6 History and Social Science: CE.1, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Collaborate with team members	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrating Professional Competencies		
Demonstrate big-picture thinking.	English: 6.1, 6.4, 7.1, 7.4, 8.1, 8.4, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Science: CE.1, CE.4, CE.12, GOVT.1, GOVT.15, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate career- and life-management skills.	English: 6.1, 6.7, 7.1, 7.7, 8.1, 8.7, 9.1, 9.6, 10.1, 10.6, 11.1, 11.6, 12.1, 12.6 History and Social Science: CE.1, CE.4, CE.12, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 8.4	
Demonstrate continuous learning and adaptability.	English: 6.1, 6.4, 6.7, 6.9, 7.1, 7.4, 7.7, 7.9, 8.1, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.3, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: BIO.1, CH.1, LS.1, PH.1, PH.4, PS.1	
Manage time and resources.	English: 6.1, 6.2, 6.4, 6.7, 6.9, 7.1, 7.2, 7.4, 7.7, 7.9, 8.1, 8.2, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8	

Task	SOL Correlations	AFNR Correlations
	History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 7.10, 7.11, 7.12, 7.13, 8.4, 8.11, 8.12, 8.13, 8.14, 8.17, 8.18, A.4, A.5, A.8, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, COM.1, COM.3, COM.5, COM.8	
Demonstrate information-literacy skills.	English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.9, 9.2, 9.5, 9.6, 9.8, 10.2, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.8, 7.9, 8.11, 8.12, A.8, A.9, AFDA.3, AFDA.4, AFDA.6, AFDA.7, AFDA.8, DM.8, PS.1*, PS.2*, PS.3*, PS.4*, PS.7*, PS.8*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1	
Demonstrate an understanding of information security.	English: 6.1, 6.2, 6.3, 6.4, 6.6, 6.7, 6.8, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.8, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.8, 8.9, 9.1, 9.2, 9.5, 9.6, 9.8, 10.1, 10.2, 10.5, 10.6, 10.8, 11.1, 11.2, 11.5, 11.6, 11.8, 12.1, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: COM.10	
Maintain working knowledge of current information-technology (IT) systems.	English: 6.1, 6.3, 6.4, 6.6, 6.9, 7.1, 7.3, 7.4, 7.6, 7.9, 8.1, 8.3, 8.4, 8.6, 8.9 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 7.8, COM.1, COM.2, COM.7, COM.9, COM.10, COM.11, COM.16, COM.18, PS.17 Science: BIO.1, CH.1, ES.1, PH.1	

Task	SOL Correlations	AFNR Correlations
Demonstrate proficiency with technologies, tools, and machines common to a specific occupation.	History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.9, 8.4, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AII.4, AII.7, AII.9, COM.1, COM.7, COM.10, COM.11, COM.12, COM.16 Science: CH.1, ES.1, LS.1, PH.1, PS.1	
Apply mathematical skills to job-specific tasks.	English: 6.4, 6.6, 6.7, 7.4, 7.6, 7.7, 8.4, 8.6, 8.7, 9.5, 9.6, 10.5, 10.6, 11.5, 11.6, 12.5, 12.6 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.5, 6.6, 6.12, 6.13, 6.14, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.8, 7.9, 7.11, 7.12, 7.13, 8.4, 8.5, 8.6, 8.8, 8.9, 8.10, 8.11, 8.12, 8.13, 8.14, 8.15, 8.16, 8.17, 8.18, A.1, A.3, A.4, A.5, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AFDA.8, AII.3, AII.7, AII.9, AII.10, COM.1, COM.7 Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1	
Demonstrate professionalism.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate reading and writing skills.	English: 6.1, 6.6, 6.7, 7.1, 7.6, 7.7, 8.1, 8.6, 8.7, 9.1, 9.5, 9.6, 9.7, 10.1, 10.5, 10.6, 10.7, 11.1, 11.5, 11.6, 11.7, 12.1, 12.5, 12.6, 12.7 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: 6.1, PH.1, PS.1	
Demonstrate workplace safety.	English: 6.4, 7.4, 8.4, 9.5, 10.5, 11.5, 12.5 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1	

Task	SOL Correlations	AFNR Correlations
Examining All Aspects of an Industry		
Examine aspects of planning within an industry/organization.	History and Social Science: GOVT.16	
Examine aspects of management within an industry/organization.		
Examine aspects of financial responsibility within an industry/organization.		
Examine technical and production skills required of workers within an industry/organization.		
Examine principles of technology that underlie an industry/organization.		
Examine labor issues related to an industry/organization.	History and Social Science: GOVT.16	
Examine community issues related to an industry/organization.	History and Social Science: GOVT.16	
Examine health, safety, and environmental issues related to an industry/organization.	History and Social Science: GOVT.16	
Addressing Elements of Student Life		
Identify the purposes and goals of the student organization.		
Explain the benefits and responsibilities of membership in the student organization as a student and in professional/civic organizations as an adult.		
Demonstrate leadership skills through participation in student organization		

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activities, such as meetings, programs, and projects.		
Identify Internet safety issues and procedures for complying with acceptable use standards.		
Exploring Work-Based Learning		
Identify the types of work-based learning (WBL) opportunities.		
Reflect on lessons learned during the WBL experience.		
Explore career opportunities related to the WBL experience.		
Participate in a WBL experience, when appropriate.		
Exploring Leadership Opportunities through FFA		
Identify the role of supervised agricultural experiences (SAEs) in agricultural education.	English: 9.3, 9.5, 10.3, 10.5	
Participate in an SAE.	English: 9.5, 9.8, 10.5, 10.8	
Identify the benefits and responsibilities of FFA membership.	English: 9.5, 9.6, 9.7, 9.8, 10.5, 10.6, 10.7, 10.8	
Describe leadership characteristics and opportunities as they relate to agriculture and FFA.	English: 9.5, 10.5 History and Social Science: VUS.8, VUS.9, VUS.10, VUS.11, WHII.8, WHII.10, WHII.11	
Apply for an FFA degree and/or an agricultural proficiency award.	English: 9.5, 10.5	

Task	SOL Correlations	AFNR Correlations
Examining the Principles of Zoology		
Explain how anatomy contributes to an animal's ability to survive in given habitats.	English: 11.5, 12.5 Science: BIO.4, BIO.8	NRS.01.05
Examine classification levels within the science of taxonomy.	English: 11.5, 12.5 Science: BIO.6	NRS.01.01 AS.06.01
Examine cell structure and cell function in animals.	English: 11.5, 12.5 Science: BIO.3	AS.06.02
Describe the process of mitosis.	English: 11.5, 12.5 Science: BIO.5	AS.06.02
Describe the process of meiosis.	English: 11.3, 11.5, 12.3, 12.5 Science: BIO.5	AS.06.02
Exploring the History of Wildlife Management		
Describe the history of wildlife management in the United States.	English: 11.5, 12.5 History and Social Sciences: VUS 3, 6, 14 Science: BIO.1, BIO.8	NRS.02.01 NRS.02.02 NRS.02.03
Define the <i>era of abundance, era of over-exploitation, era of protection, era of game management, era of environmental management, and era of conservation biology</i> .	English: 11.3, 11.5, 12.3, 12.5 Science: BIO.1, BIO.8	NRS.02.01 NRS.02.02 NRS.02.03 NRS.01.06

Task	SOL Correlations	AFNR Correlations
Identify organizations focused on stewardship of fisheries and wildlife.	English: 11.5, 11.8, 12.5, 12.8 History and Social Sciences: Govt 9, 15, 16	NRS.02.01 NRS.02.02 NRS.02.03
Examining Wildlife Conservation and Management Organizations		
Identify wildlife conservation and management agencies in Virginia.	English: 11.5, 12.5 History and Social Sciences: Govt 8, 9, 15, 16	NRS.01.02 NRS.02.01 NRS.02.02 NRS.02.03
Identify federal agencies responsible for fisheries and wildlife conservation and management.	English: 11.5, 12.5 History and Social Sciences: Govt 7, 9, 15	NRS.02.01 NRS.02.02 NRS.02.03
Explain funding sources for wildlife conservation and management agencies.	English: 11.5, 11.8, 12.5, 12.8 History and Social Sciences: Govt 7, 8, 9, 15	NRS.01.02 NRS.02.01 NRS.02.02 NRS.02.03
Understanding North American Biomes		
Compare terrestrial biomes found in North America.	English: 11.5, 12.5 Science: BIO.8	NRS.01.05
Describe the relationship between an ecosystem and a biome.	English: 11.5, 12.5 Science: BIO.8	NRS.01.05
Describe ecosystem overlap.	English: 11.3, 11.5, 12.3, 12.5 Science: BIO.8	NRS.01.05
Describe the filtering role of wetlands.	English: 11.5, 12.5 Science: BIO.8	NRS.01.05

Task	SOL Correlations	AFNR Correlations
Conserving and Managing Wildlife Resources		
Explain the value and benefits of wildlife to society.	English: 11.5, 12.5 Science: BIO.8	NRS.02.04 NRS.04.01
Describe how wildlife data is collected.	English: 11.5, 12.5 Mathematics: PS.2, PS.3, PS.4, PS.7 Science: BIO.1	CRP.07.01 CS.01.01
Describe successful stewardship practices.	English: 11.5, 12.5 Science: BIO.8	NRS.01.01 NRS.01.02 NRS.02.02 NRS.03
Examine the importance of conservation and preservation of species.	English: 11.5, 12.5 Science: BIO.8	NRS.01.02 NRS.03 CS.04.01
Describe the United States Endangered Species Act (ESA).	English: 11.5, 12.5 History and Social Sciences: Govt 7, 9, 15	NRS.02.01
Explain the effects of the ESA requirements on agriculture.	English: 11.5, 12.5 History and Social Sciences: Govt 7, 9, 15	NRS.02.01
Identify threatened and endangered species in Virginia.	English: 11.5, 11.8, 12.5, 12.8 History and Social Sciences: Govt 7, 8, 9, 15 Science: BIO.8	NRS.02.01
Explain factors that lead to the decline and extinction of species.	English: 11.5, 11.8, 12.5, 12.8	NRS.02.01 NRS.02.02

Task	SOL Correlations	AFNR Correlations
	Science: BIO.8	NRS.02.05 NRS.01.06 NRS.01.05 NRS.01.03
Explain how agricultural research can help protect vulnerable wildlife species.	English: 11.5, 11.8, 12.5, 12.8 History and Social Sciences: Govt 8, 9, 15 Science: BIO.8	CRP.07.01 CS.04.01
Managing Wildlife Habitats		
Describe the essential elements of a viable habitat.	English: 11.5, 12.5 Science: BIO.8	NRS.01.05
Explain the importance of each habitat element.	English: 11.5, 12.5 Science: BIO.8	NRS.01.05 AS.03.01
Describe the loss of habitat in Virginia.	English: 11.5, 12.5 Science: BIO.1, BIO.8	NRS.01.05 NRS.01.03
Describe anthropogenic activity responsible for habitat degradation and/or destruction.	English: 11.5, 12.5 Science: BIO.8	NRS.02.02 NRS.01.05
Identify the adaptation of various wildlife species to human development.	English: 11.5, 12.5 Science: BIO.8	NRS.02.02
Identify best management practices for habitat control (management).	English: 11.5, 12.5 Science: BIO.8	NRS.01.05 NRS.02.05

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Evaluate habitat conservation and management efforts.	English: 11.5, 12.5 Science: BIO.8	NRS.01.05 NRS.01.02 NRS.02.05 CRP.08.01 CS.04.01
Examining Mammalian Species		
Identify characteristics of mammals.	English: 11.5, 12.5 History and Social Sciences: Govt 7, 8, 9, 15 Science: BIO.4	
Identify species of rodents and lagomorphs in Virginia and North America.	English: 11.5, 12.5 Science: BIO.4, BIO.8	NRS.01.05
Identify species of ungulates (hoofed mammals) in Virginia and North America.	English: 11.5, 12.5 Science: BIO.4, BIO.8	NRS.01.05
Describe the ecological importance of mammals.	English: 11.5, 12.5 Science: BIO.8	NRS.01.05
Identify BMPs for mammal populations.	English: 11.5, 12.5 Science: BIO.8	NRS.01.05 NRS.02.05
Describe the ungulate ruminant digestive system.	English: 11.5, 12.5 Science: BIO.4	AS.06.02
Identify the impact of the white-tailed deer population on Virginia residents.	English: 11.5, 12.5 History and Social Sciences: Govt 8, 9, 15	NRS.01.05

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	Science: BIO.8	
Investigate the role of predatory mammals in Virginia and North America.	English: 11.5, 12.5 Science: BIO.8	
Explain the extirpation of certain mammal species from Virginia and their possible reintroduction.	English: 11.5, 11.8, 12.5, 12.8 Science: BIO.8	
Examining Reptilian and Amphibian Species		
Identify species of reptiles and amphibians in Virginia and North America.	English: 11.5, 12.5 Science: BIO.4, BIO.8	
Describe the ecological importance of reptiles and amphibians.	English: 11.5, 12.5 Science: BIO.8	
Identify BMPs for reptile and amphibian species.	English: 11.5, 11.8, 12.5 12.8 Science: BIO.8	NRS.01.02 NRS.01.05 NRS.01.04 CS.04.01
Examining Avian Species		
Identify avian species in Virginia and North America.	English: 11.5, 12.5 Science: BIO.4, BIO.8	
Describe the ecological importance of avian species.	English: 11.5, 12.5 Science: BIO.8	NRS.01.05
Identify BMPs for avian populations.	English: 11.5, 12.5	NRS.01.05

Task	SOL Correlations	AFNR Correlations
	Science: BIO.8	
Explore avian physiology and biology.	English: 11.5, 11.8, 12.5, 12.8 Science: BIO.4	AS.06.02
Identify waterfowl species common to Virginia.	English: 11.5, 12.5 Science: BIO.8	
Explain modern waterfowl management practices.	English: 11.5, 12.5 Science: BIO.8	
Describe the benefits provided by groups like Ducks Unlimited and the Audubon Society.	English: 11.5, 12.5 History and Social Sciences: Govt 9, 15, 16	
Identify species commonly considered game birds in Virginia.	English: 11.5, 12.5 Science: BIO.8	
Describe game bird habitat and ecology.	English: 11.5, 12.5 Science: BIO.8	NRS.01.05
Evaluate hunting regulations and their impact on game bird management.	English: 11.5, 12.5 History and Social Sciences: Govt 7, 8, 9, 15 Science: BIO.8	CRP.08.01
Describe birds of prey species common to Virginia.	English: 11.3, 11.5, 12.3, 12.5 Science: BIO.8	

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Describe the characteristics of various birds of prey.	English: 11.5, 12.5 Science: BIO.8	
Describe the role of birds of prey in urban, suburban, and rural habitats.	English: 11.5, 12.5 Science: BIO.8	NRS.01.05
Investigate perching bird species in Virginia.	English: 11.5, 12.5 Science: BIO.4, BIO.8	
Explain habitat requirements of perching birds.	English: 11.5, 12.5 Science: BIO.8	NRS.01.05
Evaluate the anthropogenic impact on songbird populations in Virginia.	English: 11.5, 12.5 Science: BIO.8	NRS.01.02 NRS.02.02 CRP.08.01
Investigate the variety of shorebirds found in Virginia during different seasons.	English: 11.3, 11.5, 12.3, 12.5 Science: BIO.8	
Describe characteristics of shorebirds.	English: 11.5, 12.5 Science: BIO.4, BIO.8	
Managing Water Quality		
Identify water characteristics.	English: 11.5, 12.5 Science: CH.4, CH.5, BIO.4	ESS.03.03
Examine water quality.	English: 11.5, 12.5 Science: CH.4, CH.5	ESS.03.03

Task	SOL Correlations	AFNR Correlations
Examine the Clean Water Act.	English: 11.5, 12.5 History and Social Sciences: Govt 7, 9, 15	NRS.02.01
Explain the importance of water quality management practices.	English: 11.5, 12.5	NRS.02.01 CRP.07.01
Describe methods for raising dissolved oxygen levels in water.	English: 11.5, 12.5	ESS.03.03
Identify management practices that protect water systems from pollution.	English: 11.5, 12.5 Science: ES.6	NRS.01.01
Identify agencies that assist in protecting water systems.	English: 11.5, 12.5	NRS.01.02 NRS.02.01 CS.04.01
Examining the Principles of Aquatic Zoology		
Identify key structures of the skeletal systems found in aquatic species.	English: 11.5, 12.5 Science: BIO.4	NRS.01.04
Identify the key structures of the muscular systems found in aquatic species.	English: 11.5, 12.5 Science: BIO.4	NRS.01.04
Examining Fish Species		
Identify fish species in Virginia and North America.	English: 11.5, 12.5 Science: BIO.8	NRS.01.04
Describe the ecological importance of fish species.	English: 11.5, 12.5 Science: BIO.8	NRS.01.01 NRS.01.05

Task	SOL Correlations	AFNR Correlations
Identify BMPs for fish populations.	English: 11.5, 12.5 Science: BIO.8	NRS.01.04
Describe the anatomy and physiology of fish.	English: 11.5, 12.5 Science: BIO.4	AS.06.02
Describe the metabolic processes of freshwater fish species.	English: 11.5, 12.5 Science: BIO.4	
Describe physical differences between saltwater and freshwater fish species.	English: 11.5, 12.5 Science: BIO.4	
Describe the spawning processes and reproduction of fish species.	English: 11.5, 12.5 Science: BIO.4	
Explain the role of predator species and the benefits of predation.	English: 11.3, 11.5, 12.3, 12.5 Science: BIO.8	NRS.01.01
Explain the difference between Virginia's warm-water and cold-water fish species.	English: 11.5, 12.5 Science: BIO.8	NRS.01.04
Examining Mollusks and Crustaceans		
Identify species of mollusks and crustaceans in Virginia and North America.	English: 11.5, 12.5 Science: BIO.4, BIO.8	
Describe the ecological importance of mollusks and crustaceans.	English: 11.5, 12.5 Science: BIO.8	

Task	SOL Correlations	AFNR Correlations
Identify BMPs for mollusk and crustacean species.	English: 11.5, 12.5 Science: BIO.8	NRS.01.02 NRS.01.04 NRS.02.01
Describe biological and physiological characteristics of mollusks and crustaceans.	English: 11.5, 12.5 Science: BIO.4	NRS.01.04
Describe the diversity of freshwater mollusks found in Virginia's streams.	English: 11.5, 12.5 Science: BIO.8	NRS.01.04
Managing Fisheries		
Identify the uses of fisheries.	English: 11.5, 12.5 Science: BIO.8	NRS.01.04 NRS.01.06
Describe BMPs used in fisheries management.	English: 11.5, 12.5 Science: BIO.8	NRS.01.04 CRP.07.01
Describe parameters used in indices of fish populations, including the utility of these indices.	English: 11.5, 12.5 Mathematics: PS.1, PS.2, PS.3, PS.4, PS.7 Science: BIO.8	NRS.01.04 NRS.01.06
Describe fish structures and habitats.	English: 11.3, 11.5, 12.3, 12.5 Science: BIO.8	NRS.01.04
Describe harvesting methods.	English: 11.5, 12.5 Science: BIO.8	NRS.01.04

Task	SOL Correlations	AFNR Correlations
Describe population management tools used in fisheries.	English: 11.5, 12.5 Science: BIO.8	NRS.01.04 NRS.01.06
Exploring Careers in Fisheries and Wildlife Management		
Identify safety practices in fisheries and wildlife management.	English: 11.5, 12.5	NRS.01.04 NRS.04.02 AS.07.02 CS.03.04
Research career opportunities within the fisheries and wildlife management field.	English: 11.5, 11.8, 12.5, 12.8	CRP.07.01 CRP.10.01 CRP.10.02 CS.05.01 CS.05.02