

Standards Correlations

Applied Agricultural Concepts

8072 18 weeks

8073 36 weeks

| Task | SOL 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, 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*</p> |

| Task | SOL Correlations |
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| | 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, USIL.1, VUS.1, WG.1, WHI.1, WHIL.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, USIL.1, VUS.1, WG.1, WHI.1, WHIL.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, USIL.1, VUS.1, WG.1, WHI.1, WHIL.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, USIL.1, VUS.1, WG.1, WHI.1, WHIL.1 |
| Demonstrate respect for diversity. | 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, USIL.1, USIL.9, VUS.1, VUS.13, WG.1, WHI.1, WHIL.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, USIL.1, VUS.1, WG.1, WHI.1, WHIL.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, USIL.1, VUS.1, WG.1, WHI.1, WHIL.1 |

| Task | SOL Correlations |
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| 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 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 |

| Task | SOL Correlations |
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| 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 |
| 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 |

| Task | SOL Correlations |
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| | 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 |
| 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 |

| Task | SOL Correlations |
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| 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 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. | |

| Task | SOL Correlations |
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| 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, WHIL.8, WHIL.10, WHIL.11 |
| Apply for an FFA degree and/or an agricultural proficiency award. | English: 9.5, 10.5 |
| Identifying the Purposes and Roles of Agricultural Agencies | |
| Explain the purposes and roles of federal agricultural agencies. | English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: WG.2,4,5 VUS.8-10 |

| Task | SOL Correlations |
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| | GOVT.7,9,15 |
| Explain the purposes and roles of state agricultural agencies. | English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: WG.2,4,5 VUS.8-10, GOVT.7,9,15 |
| Identify non-governmental agricultural partners and their roles in advocacy in the community. | English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: WG.2,4,5, VUS.8-10 |
| Applying Safety Practices in the Agricultural Mechanics Lab/Workshop | |
| Identify lab and maintenance safety procedures and protocols. | English: 9.5, 9.6, 10.5, 10.6, 11.5, 11.6, 12.5, 12.6 History and Social Sciences: GOVT.16 |
| Demonstrate safe practices in the agricultural mechanics lab/workshop. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: GOVT.16 |
| Identify marked safety areas and posted evacuation routes. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: GOVT.16 |
| Identify the location and use of eyewash stations. | English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 |
| Demonstrate knowledge of safety data sheets (SDS). | English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: WG.2,4,5; WHIL.14; VUS.8-14; GOVT.7-9,15 |

| Task | SOL Correlations |
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| Explain the use of chemicals. | English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: WG.2,4,5; VUS.8-10,14; GOVT.7,9,15 |
| Demonstrate the use of standard and metric hand tools. | English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: GOVT.16 |
| Demonstrate the use of power tools and equipment. | English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: GOVT.16 |
| Demonstrate the use of precision standard and metric measuring tools. | English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: GOVT.16 |
| Demonstrate the use of protective clothing and equipment. | English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: GOVT.16 |
| Explain the use of fire protection equipment. | English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: GOVT.7-9,16 |
| Identify hazards associated with using and servicing farm machinery and equipment. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: GOVT.16 |
| Identifying the Components of Soil | |
| Identify parts of a soil profile. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4,5 |
| Identify types of soil particles. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4,5 |

| Task | SOL Correlations |
|---|--|
| Describe characteristics of different soil types. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4,5 |
| List the major soils found in Virginia. | English: 9.6, 9.7, 10.6, 10.7, 11.6, 11.7, 12.6, 12.7 History and Social Sciences: WG.2,4,5 |
| Interpreting Soil Fertility and Test Results | |
| Explain the purpose of testing soil fertility. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4,5 |
| Conduct a soil test. | History and Social Sciences: WG.1-2,4,5; WHI.1; WHII.1; VUS.1; GOVT.1 |
| Interpret results of a soil test. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.1-2,4,5; WHI.1; WHII.1; VUS.1; GOVT.1 |
| Explain the purposes for amending the soil. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.1-2,4,5 |
| Describe Virginia laws as they apply to fertilizer application on turf and pasture. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4,5; VUS.14; GOVT.8 |
| Managing Soil Erosion | |
| List types of soil erosion. | English: 9.6, 9.7, 10.6, 10.7, 11.6, 11.7, 12.6, 12.7 History and Social Sciences: WG.2,4,5 |
| Explain the consequences of soil erosion. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.1-2,4,5; WHI.1;WHII.1,14; VUS.1,14; GOVT.1 |

| Task | SOL Correlations |
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| Identify methods of controlling erosion. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4,5; WHIL.14; VUS.14 |
| Explain the use of erosion control methods used in agriculture. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4,5; WHI.2; WHIL.14; VUS.14 |
| Establishing Turf and Forages | |
| Describe methods of seeding. | History and Social Sciences: WG.2,4 |
| Prepare the seedbed for a lawn, pasture, or hayfield. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4 |
| Select seed. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4 |
| Seed a seedbed. | History and Social Sciences: WG.2,4 |
| Irrigate a new lawn seedbed. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2; WHI.2 |
| Managing Turf and Forages | |
| Identify techniques for managing a lawn or pasture. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2 |
| Describe service and maintenance of lawn or pasture equipment. | History and Social Sciences: WG.2,4 |

| Task | SOL Correlations |
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| Describe common problems in turf and forage management. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4 |
| Design a year-round turf and forage management plan. | English: 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Sciences: WG.1,2,4; WHI.1;WHIL.1; VUS.1;GOVT.1 |
| Managing Trees and Shrubs | |
| Identify common trees and shrubs using techniques to determine the species of a tree or woody plant. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2-4 |
| Explain the importance of pruning. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4 |
| Identify pruning equipment, supplies, and best management practices. | History and Social Sciences: WG.2,4 |
| Describe the process of planting a tree and a shrub. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4 |
| Create a management plan for trees and shrubs. | English: 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Sciences: WG.1,2,4; WHI.1; WHIL.1; VUS.1;GOVT.1 |
| Implement a management plan for trees and shrubs. | English: 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 2.5 History and Social Sciences: WG.2,4 |

| Task | SOL Correlations |
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| Designing a Garden Layout | |
| Analyze the location of a garden plot. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.1,2,4; WHI.1; WHIL.1; VUS.1; GOVT.1 |
| Calculate food needs for a family. | |
| Estimate the yield of specific garden crops. | |
| Determine the location of crops in the garden plot. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4 |
| Planting the Garden | |
| Select seed and plant varieties. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4 |
| Prepare the seedbed for a garden or soilless growing medium. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4 |
| Plant seeds and vegetable plugs. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4 |
| Managing the Garden | |
| Determine water and mulch needs for the garden. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4 |
| Select the appropriate time and method to water the garden. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4 |

| Task | SOL Correlations |
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| Manage vegetable and fruit plants in the garden. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4 |
| Harvesting the Garden | |
| Identify the characteristics of ripened fruits and vegetables. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4 |
| List factors that affect the quality of fruits and vegetables. | English: 9.6, 9.7, 10.5, 10.6, 10.7, 11.5, 11.6, 11.7, 12.5, 12.6, 12.7 History and Social Sciences: WG.2,4 |
| Describe techniques for harvesting fruits and vegetables. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4 |
| Evaluate fruits and vegetables for harvest. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4 |
| Implementing Pest Management | |
| Identify common agricultural pests for plants and animals. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4 |
| Explain the life cycle of pests. | English: 9.5, 10.5, 11.5, 12.5 |
| Describe integrated pest management (IPM). | English: 9.5, 9.6, 9.7, 10.5, 10.6, 10.7, 11.5, 11.6, 11.7, 12.5, 12.6, 12.7 History and Social Sciences: WG.2,4; GOVT.15 |
| Describe the major types of agricultural pesticides. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2 |

| Task | SOL Correlations |
|---|---|
| Interpret pesticide labels. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.1; WHI.1; WHIL.1; VUS.1; GOVT.1 |
| Manage agricultural pests using IPM. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4 |
| Applying Principles of Food Safety | |
| Define <i>food safety</i> . | English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5 History and Social Sciences: WG.2,4; VUS.14; GOVT.7-9,15 |
| Prepare food products for consumption or preservation. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4 |
| Describe the production and handling of food products. | English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: WG.2,4; VUS.14; GOVT.7-9,15 |
| Describe storage of different types of food products. | English: 9.5, 10.5, 11.5, 12.5 |
| Develop a strategy to create food products that meet a consumer trend in a specific market. | English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: WG.2,4; WHI.1; WHIL.1; VUS.1; GOVT.1,15 |
| Describe food security issues. | English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5 History and Social Sciences: WG.2,4; WHIL.1; VUS.14; GOVT.15 |
| Processing Fruits and Vegetables | |

| Task | SOL Correlations |
|--|---|
| Outline the procedure for processing fruits and vegetables. | English: 9.6, 9.7, 10.6, 10.7, 11.6, 11.7, 12.6, 12.7 History and Social Sciences: WG.2,4 |
| Identify fruit and vegetable varieties. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.4 |
| Describe methods of preserving fruits and vegetables. | English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5 History and Social Sciences: WG.2,4 |
| Demonstrate a method of food preservation. | English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: WG.4 |
| Examining the Livestock and Poultry Industry | |
| Research the history of the domestication of farm animals. | English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5 History and Social Sciences: WG.2,4; WHI.2 |
| Explain the function of livestock. | English: 9.5, 10.5, 11.5, 12.5 |
| Describe the scope and importance of the livestock and poultry industry in Virginia and the United States. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: VUS.3,6-8,10 |

| Task | SOL Correlations |
|---|---|
| Analyze commercially important livestock species in Virginia. | English: 9.5, 10.5, 11.5, 12.5 |
| Describe issues related to animal welfare and animal rights. | English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5 History and Social Sciences: VUS.8,13-14; GOVT.16 |
| Examine the role of market animal projects and its relevance in the livestock industry. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: VUS14 |
| Identifying and Processing Meats | |
| Identify major cuts of meat. | English: 9.5, 10.5, 11.5, 12.5 |
| List specialized meat products. | English: 9.6, 9.7, 10.6, 10.7, 11.6, 11.7, 12.6, 12.7 |
| Outline the procedure for animal slaughter. | English: 9.5, 9.6, 9.7, 10.5, 10.6, 10.7, 11.5, 11.6, 11.7, 12.5, 12.6, 12.7 History and Social Sciences: GOVT. 7-9,16 |
| Inspecting, Grading, and Labeling Meats | |
| Explain the purposes of meat inspection. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: VUS.8,13-14; GOVT. 7-9 |
| Describe the types of meat inspection. | English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 |
| Interpret a meat product label. | English: 9.5, 10.5, 11.5, 12.5 |

| Task | SOL Correlations |
|---|---|
| | History and Social Sciences: WG.1; WHI.1; WHIL.1; VUS.1; GOVT.1 |
| List factors to consider when selecting meats. | English: 9.5, 9.6, 10.5, 10.6, 11.5, 11.6, 12.5, 12.6 |
| Rank cuts of meat according to quality grade. | |
| Preserving Meats | |
| Describe methods for preserving meat. | English: 9.5, 10.5, 11.5, 12.5 |
| Demonstrate meat-preservation processes. | English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 |
| Performing Electrical Operations | |
| Explain common electrical terms. | English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5 Mathematics: A.1, AIL.3 |
| Identify safety rules associated with the use of electrical appliances and equipment. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: GOVT.16 |
| Calculate cost of power consumption. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.1; WHI.1; WHIL.1; VUS.1; GOVT.1 |
| Demonstrate electrical shock emergency procedures. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: GOVT.16 Mathematics: A.1, A.4, |

| Task | SOL Correlations |
|---|--|
| Identify electrical symbols. | |
| Identify series and parallel circuits. | English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5 |
| Identify tools, equipment, and supplies used in the construction and repair of electrical circuits and equipment. | English: 9.5, 10.5, 11.5, 12.5 |
| Demonstrate wiring practices. | |
| Install an electrical fixture. | |
| Evaluate electrical problems. | English: 9.5, 10.5, 11.5, 12.5 |
| Performing Plumbing Operations | |
| Identify safety rules associated with the use of plumbing equipment. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: GOVT.16 |
| Identify tools, equipment, and supplies used for the installation of plumbing fixtures. | English: 9.5, 10.5, 11.5, 12.5 |
| Identify pipe and pipe fittings. | English: 9.5, 10.5, 11.5, 12.5 |
| Determine the length of pipe to be cut. | English: 9.5, 10.5, 11.5, 12.5 |
| Combine lengths of pipe. | English: 9.5, 10.5, 11.5, 12.5 |
| Performing Woodworking/Carpentry Operations | |

| Task | SOL Correlations |
|---|--|
| Identify tools, equipment, and materials used in woodworking/carpentry. | English: 9.5, 10.5, 11.5, 12.5 |
| Demonstrate the use of woodworking/carpentry equipment. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences:GOVT.16 |
| Determine materials needed for a project. | English: 9.5, 10.5, 11.5, 12.5 |
| Demonstrate layout procedures for a project. | |
| Identify fasteners. | English: 9.5, 10.5, 11.5, 12.5 |
| Demonstrate fastening techniques. | English: 9.5, 10.5, 11.5, 12.5 |
| Construct a woodworking/carpentry project. | English: 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Sciences: WG.1; WHI.1; WHIL.1; VUS.1; GOVT.1 |
| Apply a finish to a woodworking/carpentry project. | English: 9.5, 10.5, 11.5, 12.5 |
| Performing Metalworking Operations | |
| Identify tools, equipment, and materials used in metalworking. | English: 9.5, 10.5, 11.5, 12.5 |
| Demonstrate the use of metalworking tools and equipment. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: GOVT.16 |

| Task | SOL Correlations |
|--|---|
| Demonstrate a metalworking process. | English: 9.5, 10.5, 11.5, 12.5 |
| Apply a finish to a metalworking project. | English: 9.5, 10.5, 11.5, 12.5 |
| Exploring the Use of Drones in Agriculture | |
| Explain the uses of drones in agriculture. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WHII.14; VUS.14 |
| Research the types of drones used in agriculture. | English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: WHII.14; VUS.14 |
| Identify safety precautions and standard operating procedures for flying drones. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: GOVT. 16 |
| Describe the Federal Aviation Administration (FAA) Part 107 guidelines. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: GOVT. 7,9 |
| Prepare a drone for flight. | English: 9.5, 10.5, 11.5, 12.5 |
| Fly a drone, adhering to all safety requirements, industry recommended practices, and instructor guidelines. | English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: GOVT. 16 |