

Standards Correlations

Sustainability and Renewable Technologies (8414)

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> <p>Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1</p>
Demonstrate initiative and self-direction.	<p>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</p> <p>History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1,</p>

Task	SOL Correlations
	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 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,

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	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
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,

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	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 Science: 6.1, PH.1, PS.1

Task	SOL Correlations
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
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	

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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.	
Explore career opportunities related to the WBL experience.	
Participate in a WBL experience, when appropriate.	
Introducing Sustainability and Renewable Resources	
Interpret sustainability as it applies to social, economic, and environmental issues.	English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5 Social Sciences: Govt 9, 14 STEL Correlations: 4, 5
Explore the interconnectedness of the global community.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 Science: BIO.8 Social Sciences: WHII 14; VUS 14; Govt 9, 14, 15 STEL Correlations: 4, 5, 6
Contrast renewable and nonrenewable resources.	English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5 Science: ES.6 STEL Correlations: 3, 8

Task	SOL Correlations
Differentiate between exhaustible and inexhaustible resources.	English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5 Science: ES.6 STEL Correlations: 3, 8
Evaluate a variety of media and informational sources for reliability and bias.	English: 9.5, 10.5, 11.5, 12.5 Social Science: Govt 14, 15, 16 STEL Correlations: 3
Analyze the effect of an individual's carbon, ecological, and water footprint.	English: 9.5, 9.6, 10.5, 10.6, 11.5, 11.6, 12.5, 12.6 Mathematics: A.1, A.4, A.5, A.8, A.9, AIL.3, AIL.7, COM.7, PS.1*, PS.2*, PS.3*, PS.4*, PS.11*, PS.12*, MA.2 Science: BIO.8, ES.11 STEL Correlations: 8
Examining Social Sustainability	
Differentiate between needs and wants.	English: 9.5, 10.5, 11.5, 12.5 STEL Correlations: 3, 8
Research quality-of-life issues in developed and developing countries.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 Social Science: WHII 14; VUS 14; Govt 9, 14, 15 STEL Correlations: 3
Compare quality of life in developing nations with quality of life in developed nations.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 Social Sciences: WHII 14; VUS 14; Govt 9, 14, 15 STEL Correlations: 3
Research the relationships among standard of living, economic growth, and energy consumption.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 Social Sciences: WHII 14; VUS 14; Govt 9, 14, 15 STEL Correlations: 3
Exploring the Economics of Sustainability	
Illustrate the interconnectedness of needs and wants and resource availability.	English: 9.5, 10.5, 11.5, 12.5 Social Sciences: WHII 14; VUS 14; Govt 9, 14, 15 STEL Correlations: 3, 8
Identify factors that influence consumer choices.	English: 9.5, 10.5, 11.5, 12.5

Task	SOL Correlations
	Social Sciences: Govt 14 STEL Correlations: 3
Analyze economic interests as a motivating force behind sustainable technology decisions.	English: 9.5, 10.5, 11.5, 12.5 Social Sciences: Govt 14 STEL Correlations: 3, 8
Investigate the role of government and budgetary allocation in providing access to and distribution of resources.	English: 9.3, 9.5, 9.8, 10.3, 10.5, 10.8, 11.3, 11.5, 11.8, 12.3, 12.5, 12.8 Science: ES.6 Social Sciences: Govt 9, 14, 15 STEL Correlations: 3
Perform a life-cycle cost analysis.	English: 9.5, 10.5, 11.5, 12.5 STEL Correlations: 3, 8
Analyzing Environmental Issues	
Analyze the relationship between population and carrying capacity.	English: 9.5, 10.5, 11.5, 12.5 Science: BIO.8, ES.6 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 3
Examine the environmental impacts of the extraction and reliance on fossil fuels.	English: 9.5, 10.5, 11.5, 12.5 Science: BIO.8, ES.6 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 3, 8
Outline a major environmental issue that affects human health and the viability of the planet.	English: 9.6, 9.7, 10.6, 10.7, 11.6, 11.7, 12.6, 12.7 Science: BIO.8, ES.6, ES.10 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 3, 8
Demonstrate a major technological environmental issue's effect on global and local human health and the viability of the planet.	English: 9.5, 10.5, 11.5, 12.5 Science: BIO.8, ES.6, ES.10 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 3

Task	SOL Correlations
Debate strategies for responding to major environmental issues.	English: 9.1, 10.1, 11.1, 12.1 Science: BIO.8, ES.6, ES.10, E.11 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 3
Explain basic concepts of ecology and environmental science.	English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5 Science: BIO.8 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 3
Examine the interconnectedness between man-made structures and the natural environment.	English: 9.5, 10.5, 11.5, 12.5 Science: BIO.8, ES.8, ES.2 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 1, 3, 4, 8
Examining Technology's Effect on the Environment and Natural Resources	
Examine definitions of climate change.	English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5 Science: ES.2, ES.11 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 3
Examine the scientific research regarding climate change.	English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5 Science: ES.2, ES.11 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 3
Research how climate change will effect different regions of the United States.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 Science: ES.11 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 3
Examine the economic effects of climate change.	English: 9.5, 10.5, 11.5, 12.5 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 3
Research the effect of mankind's use of	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8

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technology on the environment.	Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 3, 4, 8
Evaluating Sustainable Practices	
Compare sustainable alternatives in agriculture.	English: 9.5, 10.5, 11.5, 12.5 STEL Correlations: 3, 4, 5
Identify sustainable alternatives in construction and building management.	English: 9.5, 10.5, 11.5, 12.5 STEL Correlations: 3, 4, 5
Explain the environmental effect of new construction vs. renovation.	English: 9.5, 10.5, 11.5, 12.5 STEL Correlations: 3, 4, 5
Design methods to reduce energy consumption in a given process in building and facilities design and management.	English: 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 7, 8
Research how effects from climate change can be mitigated.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 3, 5, 8
Analyze linear and cyclical approaches to life cycles of common technological products.	English: 9.5, 10.5, 11.5, 12.5 STEL Correlations: 3, 4, 5, 8
Investigate the role of innovation in minimizing waste.	English: 9.5, 10.5, 11.5, 12.5 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 1, 3, 5, 8
Create a new product from existing products using the cradle-to-cradle approach.	STEL Correlations: 7, 8
Examining Renewable Energy	
Explain different energy technologies and their capacity to meet the social, economic, and environmental needs for a sustainable future.	English: 9.5, 10.5, 11.5, 12.5 Science: ES.6 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 3, 8

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Predict the ability of renewable and nonrenewable energy resources to meet future demand.	English: 9.5, 10.5, 11.5, 12.5 Science: ES.6 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 3, 5
Analyze barriers to implementation of renewable technology and practices.	English: 9.5, 10.5, 11.5, 12.5 Science: ES.6 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 3, 5, 8
Propose methods of overcoming barriers to implementation of renewable technology and practices.	English: 9.5, 10.5, 11.5, 12.5 Science: ES.6 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 3, 8
Assess the accessibility of renewable technologies within a given geographical area.	English: 9.5, 10.5, 11.5, 12.5 Science: ES.6 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 3
Measure energy output of a renewable energy source using proper instruments.	Mathematics: AII.3 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 3, 8
Explain the function of the basic components of a PV system.	English: 9.5, 10.5, 11.5, 12.5 STEL Correlations: 3, 8
Produce a working wind turbine.	English: 9.5, 10.5, 11.5, 12.5 Science: PH.6 STEL Correlations: 3, 8
Investigate the effects of light intensity and color on the energy output of a PV array.	English: 9.5, 10.5, 11.5, 12.5 STEL Correlations: 3, 8
Construct a model of a renewable energy system that powers a small device.	English: 9.5, 10.5, 11.5, 12.5 Science: PH.6 STEL Correlations: 3, 8

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Investigate how wind speed and direction affect wind turbine power output.	English: 9.5, 10.5, 11.5, 12.5 Science: PH.6 STEL Correlations: 3
Explain the basic principles of geothermal and geo-exchange systems.	English: 9.5, 10.5, 11.5, 12.5 STEL Correlations: 3, 8
Examining Emerging Technology	
Identify emerging technology.	English: 9.5, 10.5, 11.5, 12.5 Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 5, 8
Research emerging sustainable technologies or a new sustainable innovation or invention.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 Mathematics: PS.8*, PS.9*, PS.10* Social Sciences: WHII 14: VUS 14; Govt 9, 14, 15 STEL Correlations: 1, 3, 8