

Standards Correlations

Energy Demand: Sustainability and Efficiency (ED8411)

Task	SOL Correlations	ITEEA National Standards
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,</p>	

Task	SOL Correlations	ITEEA National Standards
	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* 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	

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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, 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	

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	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	

Task	SOL Correlations	ITEEA National Standards
	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	
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	

Task	SOL Correlations	ITEEA National Standards
	Science: CH.1, ES.1, LS.1, PH.1, PS.1	
Apply mathematical skills to job-specific tasks.	<p>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</p> <p>History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1</p> <p>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</p> <p>Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1</p>	
Demonstrate professionalism.	<p>English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1</p> <p>History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1</p>	
Demonstrate reading and writing skills.	<p>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</p> <p>History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1</p> <p>Science: 6.1, PH.1, PS.1</p>	
Demonstrate workplace safety.	<p>English: 6.4, 7.4, 8.4, 9.5, 10.5, 11.5, 12.5</p> <p>History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1</p>	

Task	SOL Correlations	ITEEA National Standards
	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	History and Social Science: GOVT.16	

Task	SOL Correlations	ITEEA National Standards
issues related to an industry/organization.		
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	ITEEA National Standards
Explore career opportunities related to the WBL experience.		
Participate in a WBL experience, when appropriate.		
Exploring Sustainability and Efficiency		
Describe the sectors that comprise energy demand.	English: 10.5, 11.5 History and Social Science: GOVT.14, GOVT.15	1. The Characteristics and Scope of Technology 3. The Relationships Among Technologies and the Connections Between Technology and Other Fields 4. The Cultural, Social, Economic, and Political Effects of Technology 6. The Role of Society in the Development and Use of Technology
Investigate energy demand in the residential sector.	English: 10.5, 11.5 History and Social Science: GOVT.14, GOVT.15	6. The Role of Society in the Development and Use of Technology
Investigate energy demand in the commercial sector.	English: 10.5, 10.8, 11.5, 11.8 History and Social Science: GOVT.14, GOVT.15	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields 4. The Cultural, Social, Economic, and Political Effects of Technology
Investigate energy demand in the industrial sector.	English: 10.5, 10.8, 11.5, 11.8 History and Social Science: GOVT.14, GOVT.15	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields

Task	SOL Correlations	ITEEA National Standards
		4. The Cultural, Social, Economic, and Political Effects of Technology
Investigate energy demand in the transportation sector.	English: 10.5, 10.8, 11.5, 11.8 History and Social Science: GOVT.14, GOVT.15	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields 4. The Cultural, Social, Economic, and Political Effects of Technology
Investigate energy demand in other sectors.	English: 10.5, 10.8, 11.5, 11.8 History and Social Science: GOVT.14, GOVT.15	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields 4. The Cultural, Social, Economic, and Political Effects of Technology 6. The Role of Society in the Development and Use of Technology
Model an energy sector.		3. The Relationships Among Technologies and the Connections Between Technology and Other Fields
Define <i>energy sustainability</i> .	English: 10.3, 10.5, 11.3, 11.5 History and Social Science: GOVT.9, GOVT.12, VUS.14, WG.17, WHII.14 Science: ES.6	2. The Core Concepts of Technology 3. The Relationships Among Technologies and the Connections Between Technology and Other Fields 4. The Cultural, Social, Economic, and Political Effects of Technology 5. The Effects of Technology on the Environment

Task	SOL Correlations	ITEEA National Standards
Define <i>energy efficiency</i> .	English: 10.3, 10.5, 10.8, 11.8 History and Social Science: GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14	16. Energy and Power Technologies 2. The Core Concepts of Technology 3. The Relationships Among Technologies and the Connections Between Technology and Other Fields 4. The Cultural, Social, Economic, and Political Effects of Technology 5. The Effects of Technology on the Environment 16. Energy and Power Technologies
Discuss sustainability and efficiency as they apply to social, economic, and environmental considerations.	English: 10.1, 11.1 History and Social Science: GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14 Science: ES.6	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields 4. The Cultural, Social, Economic, and Political Effects of Technology 5. The Effects of Technology on the Environment 16. Energy and Power Technologies
Keep a personal energy log.	English: 10.6, 11.6 History and Social Science: GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14	16. Energy and Power Technologies 16. Energy and Power Technologies
Exploring Energy Demand		

Task	SOL Correlations	ITEEA National Standards
Identify the components of energy demand.	English: 10.5, 11.5 History and Social Science: GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields 4. The Cultural, Social, Economic, and Political Effects of Technology 5. The Effects of Technology on the Environment
Illustrate the electric energy grid.	History and Social Science: GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields 5. The Effects of Technology on the Environment 16. Energy and Power Technologies
Describe energy end users.	English: 10.5, 11.5 History and Social Science: GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14	4. The Cultural, Social, Economic, and Political Effects of Technology
Describe economic concepts in energy demand.	English: 10.5, 11.5 History and Social Science: GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14	4. The Cultural, Social, Economic, and Political Effects of Technology
Investigate energy market structures.	English: 10.5, 10.8, 11.5, 11.8 History and Social Science: GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields 4. The Cultural, Social, Economic, and Political Effects of Technology

Task	SOL Correlations	ITEEA National Standards
Exploring Building Science		
Define <i>building science</i> .	English: 10.3, 10.5, 11.3, 11.5	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields
Describe the Federal Emergency Management Agency's (FEMA's) relationship to building science.	English: 10.5, 11.5 History and Social Science: GOVT.7, GOVT.14, GOVT.15	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields 4. The Cultural, Social, Economic, and Political Effects of Technology
Examine building materials in a building supply store.	English: 10.8, 11.8	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields
Research building science in relation to energy demand.	English: 10.8, 11.8	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields 4. The Cultural, Social, Economic, and Political Effects of Technology
Understanding Facility Design and Engineering Systems		
Describe systems within facilities.	English: 10.5, 11.5	2. The Core Concepts of Technology 3. The Relationships Among Technologies and the Connections Between Technology and Other Fields
Demonstrate methods to minimize energy demand in facilities across sectors.	English: 10.1, 10.6, 11.1, 11.6 History and Social Science: GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14	16. Energy and Power Technologies
Design an energy-efficient and sustainable home.	History and Social Science: GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14	11. Apply the Design Process

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		16. Energy and Power Technologies 20. Construction Technologies
Redesign a facility or system(s) within a facility to improve energy efficiency.	History and Social Science: GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14	2. The Core Concepts of Technology 11. Apply the Design Process 16. Energy and Power Technologies 20. Construction Technologies
Understanding Regulations		
Explain the purpose of energy regulation.	English: 10.5, 11.5 History and Social Science: GOVT.7, GOVT.8, GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14	4. The Cultural, Social, Economic, and Political Effects of Technology 6. The Role of Society in the Development and Use of Technology
Identify the agencies involved in energy regulation.	English: 10.5, 10.8, 11.5, 11.8 History and Social Science: GOVT.7, GOVT.8, GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14	4. The Cultural, Social, Economic, and Political Effects of Technology
Research an example of regulatory compliance.	English: 10.8, 11.8 History and Social Science: GOVT.7, GOVT.8, GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14	4. The Cultural, Social, Economic, and Political Effects of Technology 16. Energy and Power Technologies
Exploring Efficiency Testing and Ratings		
Describe efficiency testing and ratings.	English: 10.5, 11.5	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields

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	History and Social Science: GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14 Mathematics: AFDA.8, PS.1*, PS.2*, PS.3*, PS.4*, PS.10*	16. Energy and Power Technologies
Identify the elements of an energy audit.	English: 10.5, 11.5 Mathematics: AFDA.8, PS.1*, PS.2*, PS.3*, PS.4*, PS.8*, PS.9*, PS.10*	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields 16. Energy and Power Technologies 20. Construction Technologies
Observe an energy audit.	Mathematics: AFDA.8, PS.1*, PS.2*, PS.3*, PS.4*, PS.8*, PS.9*, PS.10*	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields 16. Energy and Power Technologies
Revise personal energy log.	English: 10.6, 10.7, 11.6, 11.7	16. Energy and Power Technologies
Perform an energy audit.	English: 10.5, 11.5 History and Social Science: GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14 Mathematics: AFDA.8, PS.1*, PS.2*, PS.3*, PS.4*, PS.8*, PS.9*, PS.10*	3. The Relationships Among Technologies and the Connections Between Technology and Other Fields 16. Energy and Power Technologies 20. Construction Technologies
Understanding Behavior Modification		
Define behavior as it relates to the demand for energy.	English: 10.3, 11.3	6. The Role of Society in the Development and Use of Technology

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	History and Social Science: GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14	
Describe behavior modification factors in relation to the demand for energy.	English: 10.5, 11.5 History and Social Science: GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14	6. The Role of Society in the Development and Use of Technology 16. Energy and Power Technologies
Develop strategies for behavior modification in relation to energy demand.	English: 10.1, 11.1 History and Social Science: GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14 Mathematics: DM.4, DM.3*	6. The Role of Society in the Development and Use of Technology 16. Energy and Power Technologies
Exploring New and Emerging Technologies		
Research new and emerging technologies affecting energy demand.	English: 10.8, 11.8 History and Social Science: GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14	16. Energy and Power Technologies
Research a new technology affecting a given sector.	English: 10.8, 11.8 History and Social Science: GOVT.9, GOVT.12, GOVT.14, GOVT.15, VUS.14, WG.17, WHIL.14	16. Energy and Power Technologies
Present research on innovation in energy demand.	English: 10.1, 10.6, 10.7, 11.1, 11.6, 11.7	16. Energy and Power Technologies