GRADE SIX GRADE LEVEL EXPECTATIONS CORRELATED TO ENERGY ACTIVITIES

Activity	Science GLE	Social Studies GLE	Math GLE	Language Arts GLE
Energy and Society Activity Guide				
1: Energy Detectives	**24.** Describe and give examples of how all forms of energy may be classified as potential or kinetic energy (PS-M-C1) **25.** Compare forms of energy (e.g., light, heat, sound, electrical, nuclear, mechanical) (PS-M-C1) **28**. Explain the law of conservation of energy (PS-M-C2) **29.** Compare and/or investigate the relationships among work, power, and efficiency (PS-M-C2) **38.** Identify conditions under which thermal energy tends to flow from a system of higher energy to a system of lower energy (PS-M-C5) **39.** Describe how electricity can be produced from other types of energy (e.g., magnetism, solar, mechanical) (PS-M-C6) **41.** Identify risks associated with the production and use of coal, petroleum, hydroelectricity, nuclear energy, and other energy forms (PS-M-C8) **43.** Explain how the use of different energy resources affects the environment and the economy (SE-M-A6)	**4.** Explain ways in which goals, cultures, interests, inventions, and technological advances have affected people's perceptions and uses of places or regions in world history (G-1B-M4) **9.** Explain how different physical environments affected human activity in ancient civilizations (G-1D-M2) **10.** Analyze world or regional distribution of natural resources in terms of the need to import or the capacity to export (G-1D-M3)		**3.** Develop specific vocabulary (e.g., scientific, content-specific, current events) for various purposes (ELA-1-M1) **7.** Explain the connections between ideas and information in a variety of texts (e.g., journals, technical specifications, advertisements) and real-life situations and other texts (ELA-1-M4) **GLE 17-48** are applicable to this activity
2: May the Source Be With You	**25.** Compare forms of energy (e.g., light, heat, sound, electrical, nuclear, mechanical) (PS-M-C1) **28.** Explain the law of conservation of energy (PS-M-C2) **29.** Compare and/or investigate the relationships among work, power, and efficiency (PS-M-C2) **39.** Describe how electricity can be produced from other types of energy (e.g., magnetism, solar, mechanical) (PS-M-C6) **41.** Identify risks associated with the production and use of coal, petroleum, hydroelectricity, nuclear energy, and other energy forms (PS-M-C8)		**20.** Calculate, interpret, and compare rates such as $/lb., mpg, and mph (M-1-M) (A-5-M) **30.** Describe and analyze trends and patterns observed in graphic displays (D-2-M)	**3.** Develop specific vocabulary (e.g., scientific, content-specific, current events) for various purposes (ELA-1-M1) **7.** Explain the connections between ideas and information in a variety of texts (e.g., journals, technical specifications, advertisements) and real-life situations and other texts (ELA-1-M4) **13.** Use technical information and other available resources (e.g., software programs, manuals) to solve problems (ELA-7-M2)

Activity	Science GLE	Social Studies GLE	Math GLE	Language Arts GLE
2: May the Source Be With You	**42.** Identify energy types from their source to their use and determine if the energy types are renewable, nonrenewable, or inexhaustible (SE-M-A6) **43.** Explain how the use of different energy resources affects the environment and the economy (SE-M-A6) **44.** Explain how an inexhaustible resource can be harnessed for energy production (SE-M-A6) **45.** Describe methods for sustaining renewable resources (SE-M-A6) **46.** Identify ways people can reuse, recycle, and reduce the use of resources to improve and protect the quality of life (SE-M-A6) **47.** Illustrate how various technologies influence resource use in an ecosystem (e.g., forestry management, soil conservation, fishery improvement) (SE-M-A8)			**GLE 17-48** are applicable to this activity
3: Energy Chains	**24.** Describe and give examples of how all forms of energy may be classified as potential or kinetic energy (PS-M-C1) **28.** Explain the law of conservation of energy (PS-M-C2) **29.** Compare and/or investigate the relationships among work, power, and efficiency (PS-M-C2) **39.** Describe how electricity can be produced from other types of energy (e.g., magnetism, solar, mechanical) (PS-M-C6) **41.** Identify risks associated with the production and use of coal, petroleum, hydroelectricity, nuclear energy, and other energy forms (PS-M-C8)			**3.** Develop specific vocabulary (e.g., scientific, content-specific, current events) for various purposes (ELA-1-M1) **GLE 17-48** are applicable to this activity
4: What Powers the Move?	**25.** Compare forms of energy (e.g., light, heat, sound, electrical, nuclear, mechanical) (PS-M-C1) **26.** Describe and summarize observations of the transmission, reflection, and absorption of sound, light, and heat energy (PS-M-C1) **28.** Explain the law of conservation of energy (PS-M-C2)	**4.** Explain ways in which goals, cultures, interests, inventions, and technological advances have affected people's perceptions and uses of places or regions in world history (G-1B-M4) **18.** Describe the causes, effects, or impact of a given historical development or event in world civilizations (H-1A-M3)	**13.**Use models and pictures to explain concepts or solve problems involving ratio, proportion, and percent with whole numbers (N-8-M) **20**. Calculate, interpret, and compare rates such as $/lb., mpg, and mph (M-1-M) (A-5-M) **30.** Describe and analyze trends and patterns observed in graphic displays (D-2-M)	**3**. Develop specific vocabulary (e.g., scientific, content-specific, current events) for various purposes (ELA-1-M1) 7. Explain the connections between ideas and information in a variety of texts (e.g., journals, technical specifications, advertisements) and real-life situations and other texts (ELA-1-M4)

Activity	Science GLE	Social Studies GLE	Math GLE	Language Arts GLE
4: What Powers the Move?	**29.** Compare and/or investigate the relationships among work, power, and efficiency (PS-M-C2) **39.** Describe how electricity can be produced from other types of energy (e.g., magnetism, solar, mechanical) (PS-M-C6) **41.** Identify risks associated with the production and use of coal, petroleum, hydroelectricity, nuclear energy, and other energy forms (PS-M-C8) **42.** Identify energy types from their source to their use and determine if the energy types are renewable, nonrenewable, or inexhaustible (SE-M-A6) **43.** Explain how the use of different energy resources affects the environment and the economy (SE-M-A6) **44.** Explain how an inexhaustible resource can be harnessed for energy production (SE-M-A6) **45.** Describe methods for sustaining renewable resources (SE-M-A6) **46.** Identify ways people can reuse, recycle, and reduce the use of resources to improve and protect the quality of life (SE-M-A6) **47.** Illustrate how various technologies influence resource use in an ecosystem (e.g., forestry management, soil conservation, fishery improvement) (SE-M-A8)			**13.** Use technical information and other available resources (e.g., software programs, manuals) to solve problems (ELA-7-M2) **GLE 17-48** are applicable to this activity
5: In the Driver's Seat	**25.** Compare forms of energy (e.g., light, heat, sound, electrical, nuclear, mechanical) (PS-M-C1) **29.** Compare and/or investigate the relationships among work, power, and efficiency (PS-M-C2) **41.** Identify risks associated with the production and use of coal, petroleum, hydroelectricity, nuclear energy, and other energy forms (PS-M-C8) **43.** Explain how the use of different energy resources affects the environment and the economy (SE-M-A6)	**4.** Explain ways in which goals, cultures, interests, inventions, and technological advances have affected people's perceptions and uses of places or regions in world history (G-1B-M4) **9.** Explain how different physical environments affected human	**13.** Use models and pictures to explain concepts or solve problems involving ratio, proportion, and percent with whole numbers (N-8-M) **20**. Calculate, interpret, and compare rates such as $/lb., mpg, and mph (M-1-M) (A-5-M) **30.** Describe and analyze trends and	**3.** Develop specific vocabulary (e.g., scientific, content-specific, current events) for various purposes (ELA-1-M1) **7.** Explain the connections between ideas and information in a variety of texts (e.g., journals, technical specifications,

Activity	Science GLE	Social Studies GLE	Math GLE	Language Arts GLE
5: In the Driver's Seat	**44.** Explain how an inexhaustible resource can be harnessed for energy production (SE-M-A6) **45.** Describe methods for sustaining renewable resources (SE-M-A6) **46.** Identify ways people can reuse, recycle, and reduce the use of resources to improve and protect the quality of life (SE-M-A6) **47.** Illustrate how various technologies influence resource use in an ecosystem (e.g., forestry management, soil conservation, fishery improvement) (SE-M-A8)	activity in ancient civilizations (G-1D-M2) **10.** Analyze world or regional distribution of natural resources in terms of the need to import or the capacity to export (G-1D-M3) **18.** Describe the causes, effects, or impact of a given historical development or event in world civilizations (H-1A-M3)	patterns observed in graphic displays (D-2-M)	advertisements) and real-life situations and other texts (ELA-1-M4) **13.** Use technical information and other available resources (e.g., software programs, manuals) to solve problems (ELA-7-M2) **GLE 17-48** are applicable to this activity
6: Energy Challenge Game				**3.** Develop specific vocabulary (e.g., scientific, content-specific, current events) for various purposes (ELA-1-M1) **GLE 17-48** are applicable to this activity

PreK-8 Activity Guide

Activity	Science GLE	Social Studies GLE	Math GLE	Language Arts GLE
14: Renewable or Not	**39.** Describe how electricity can be produced from other types of energy (e.g., magnetism, solar, mechanical) (PS-M-C6) **41.** Identify risks associated with the production and use of coal, petroleum, hydroelectricity, nuclear energy, and other energy forms (PS-M-C8) **42.** Identify energy types from their source to their use and determine if the energy types are renewable, nonrenewable, or inexhaustible (SE-M-A6) **43.** Explain how the use of different energy resources affects the environment and the economy (SE-M-A6) **45.** Describe methods for sustaining renewable resources (SE-M-A6) **46.** Identify ways people can reuse, recycle, and reduce the use of resources to improve and protect the quality of life (SE-M-A6) **47.** Illustrate how various technologies influence resource use in an ecosystem (e.g., forestry management, soil conservation, fishery improvement) (SE-M-A8)	**4.** Explain ways in which goals, cultures, interests, inventions, and technological advances have affected people's perceptions and uses of places or regions in world history (G-1B-M4) **9.** Explain how different physical environments affected human activity in ancient civilizations (G-1D-M2) **10.** Analyze world or regional distribution of natural resources in terms of the need to import or the capacity to export (G-1D-M3) **14.** Use economic concepts (e.g., supply and demand, interdependence) to describe the economic motivations for expanding trade and territorial domination in world history (E-1A-M9)	**13.** Use models and pictures to explain concepts or solve problems involving ratio, proportion, and percent with whole numbers (N-8-M) **30.** Describe and analyze trends and patterns observed in graphic displays (D-2-M)	**3.** Develop specific vocabulary (e.g., scientific, content-specific, current events) for various purposes (ELA-1-M1) **GLE 17-48** are applicable to this activity

Activity	Science GLE	Social Studies GLE	Math GLE	Language Arts GLE
36: Pollution Search	**25.** Compare forms of energy (e.g., light, heat, sound, electrical, nuclear, mechanical) (PS-M-C1) **41.** Identify risks associated with the production and use of coal, petroleum, hydroelectricity, nuclear energy, and other energy forms (PS-M-C8) **43.** Explain how the use of different energy resources affects the environment and the economy (SE-M-A6) **45.** Describe methods for sustaining renewable resources (SE-M-A6) **46.** Identify ways people can reuse, recycle, and reduce the use of resources to improve and protect the quality of life (SE-M-A6) **47.** Illustrate how various technologies influence resource use in an ecosystem (e.g., forestry management, soil conservation, fishery improvement) (SE-M-A8)	**4.** Explain ways in which goals, cultures, interests, inventions, and technological advances have affected people's perceptions and uses of places or regions in world history (G-1B-M4)	**13.** Use models and pictures to explain concepts or solve problems involving ratio, proportion, and percent with whole numbers (N-8-M) 30. Describe and analyze trends and patterns observed in graphic displays (D-2-M)	**3.** Develop specific vocabulary (e.g., scientific, content-specific, current events) for various purposes (ELA-1-M1) **7.** Explain the connections between ideas and information in a variety of texts (e.g., journals, technical specifications, advertisements) and real-life situations and other texts (ELA-1-M4) **11.** Demonstrate understanding of information in grade-appropriate texts using a variety of strategies, **GLE 17-48** are applicable to this activity
39: Energy Sleuths	**18.** Explain how the resistance of materials affects the rate of electrical flow (PS-M-B2) 25. Compare forms of energy (e.g., light, heat, sound, electrical, nuclear, mechanical) (PS-M-C1) **26.** Describe and summarize observations of the transmission, reflection, and absorption of sound, light, and heat energy (PS-M-C1) **28.** Explain the law of conservation of energy (PS-M-C2) **29.** Compare and/or investigate the relationships among work, power, and efficiency (PS-M-C2) **38.** Identify conditions under which thermal energy tends to flow from a system of higher energy to a system of lower energy (PS-M-C5) **39.** Describe how electricity can be produced from other types of energy (e.g., magnetism, solar, mechanical) (PS-M-C6) **41.** Identify risks associated with the production and use of coal, petroleum, hydroelectricity, nuclear energy, and other energy forms (PS-M-C8) **42.** Identify energy types from their source	**9.** Explain how different physical environments affected human activity in ancient civilizations (G-1D-M2) **10.** Analyze world or regional distribution of natural resources in terms of the need to import or the capacity to export (G-1D-M3) **14.** Use economic concepts (e.g., supply and demand, interdependence) to describe the economic motivations for expanding trade and territorial domination in world history (E-1A-M9)	**20.** Calculate, interpret, and compare rates such as $/lb., mpg, and mph (M-1-M) (A-5-M) 30. Describe and analyze trends and patterns observed in graphic displays (D-2-M)	**3.** Develop specific vocabulary (e.g., scientific, content-specific, current events) for various purposes (ELA-1-M1) **7.** Explain the connections between ideas and information in a variety of texts (e.g., journals, technical specifications, advertisements) and real-life situations and other texts (ELA-1-M4) **GLE 17-48** are applicable to this activity

Activity	Science GLE	Social Studies GLE	Math GLE	Language Arts GLE
39: Energy Sleuths	to their use and determine if the energy types are renewable, nonrenewable, or inexhaustible (SE-M-A6) **43.** Explain how the use of different energy resources affects the environment and the economy (SE-M-A6) 44. Explain how an inexhaustible resource can be harnessed for energy production (SE-M-A6) 45. Describe methods for sustaining renewable resources (SE-M-A6) 46. Identify ways people can reuse, recycle, and reduce the use of resources to improve and protect the quality of life (SE-M-A6) 47. Illustrate how various technologies influence resource use in an ecosystem (e.g., forestry management, soil conservation, fishery improvement) (SE-M-A8)			
44: Water Wonders	**42.** Identify energy types from their source to their use and determine if the energy types are renewable, nonrenewable, or inexhaustible (SE-M-A6) **43.** Explain how the use of different energy resources affects the environment and the economy (SE-M-A6) **44.** Explain how an inexhaustible resource can be harnessed for energy production (SE-M-A6) **45.** Describe methods for sustaining renewable resources (SE-M-A6) **46.** Identify ways people can reuse, recycle, and reduce the use of resources to improve and protect the quality of life (SE-M-A6) **47.** Illustrate how various technologies influence resource use in an ecosystem (e.g., forestry management, soil conservation, fishery improvement) (SE-M-A8)			**3.** Develop specific vocabulary (e.g., scientific, content-specific, current events) for various purposes (ELA-1-M1) **GLE 17-48** are applicable to this activity
52: A Look at Aluminum	**25.** Compare forms of energy (e.g., light, heat, sound, electrical, nuclear, mechanical) (PS-M-C1) **29.** Compare and/or investigate the relationships among work, power, and	**10.** Analyze world or regional distribution of natural resources in terms of the need to import or the capacity to export (G-1D-M3) **14.** Use economic concepts (e.g.,	**13.** Use models and pictures to explain concepts or solve problems involving ratio, proportion, and percent with whole numbers (N-8-M) **30.** Describe and analyze trends and	**3.** Develop specific vocabulary (e.g., scientific, content-specific, current events) for various purposes (ELA-1-M1) **7.** Explain the connections between

Activity	Science GLE	Social Studies GLE	Math GLE	Language Arts GLE
52: A Look at Aluminum	efficiency (PS-M-C2) **39.** Describe how electricity can be produced from other types of energy (e.g., magnetism, solar, mechanical) (PS-M-C6) **42.** Identify energy types from their source to their use and determine if the energy types are renewable, nonrenewable, or inexhaustible (SE-M-A6) **43.** Explain how the use of different energy resources affects the environment and the economy (SE-M-A6) **44.** Explain how an inexhaustible resource can be harnessed for energy production (SE-M-A6)**45.** Describe methods for sustaining renewable resources (SE-M-A6) **46.** Identify ways people can reuse, recycle, and reduce the use of resources to improve and protect the quality of life (SE-M-A6) **47.** Illustrate how various technologies influence resource use in an ecosystem (e.g., forestry management, soil conservation, fishery improvement) (SE-M-A8)	supply and demand, interdependence) to describe the economic motivations for expanding trade and territorial domination in world history (E-1A-M9)	patterns observed in graphic displays (D-2-M)	ideas and information in a variety of texts (e.g., journals, technical specifications, advertisements) and real-life situations and other texts (ELA-1-M4) **11.** Demonstrate understanding of information in grade-appropriate texts using a variety of strategies, **13.** Use technical information and other available resources (e.g., software programs, manuals) to solve problems (ELA-7-M2) **GLE 17-48** are applicable to this activity
53: On the Move	**42.** Identify energy types from their source to their use and determine if the energy types are renewable, nonrenewable, or inexhaustible (SE-M-A6) **43.** Explain how the use of different energy resources affects the environment and the economy (SE-M-A6) **44.** Explain how an inexhaustible resource can be harnessed for energy production (SE-M-A6) **45.** Describe methods for sustaining renewable resources (SE-M-A6) **46.** Identify ways people can reuse, recycle, and reduce the use of resources to improve and protect the quality of life (SE-M-A6) **47.** Illustrate how various technologies influence resource use in an ecosystem (e.g., forestry management, soil conservation, fishery improvement) (SE-M-A8)	**10.** Analyze world or regional distribution of natural resources in terms of the need to import or the capacity to export (G-1D-M3)	**13.** Use models and pictures to explain concepts or solve problems involving ratio, proportion, and percent with whole numbers (N-8-M) **30.** Describe and analyze trends and patterns observed in graphic displays (D-2-M)	**3.** Develop specific vocabulary (e.g., scientific, content-specific, current events) for various purposes (ELA-1-M1) **7.** Explain the connections between ideas and information in a variety of texts (e.g., journals, technical specifications, advertisements) and real-life situations and other texts (ELA-1-M4) **13.** Use technical information and other available resources (e.g., software programs, manuals) to solve problems (ELA-7-M2) **GLE 17-48** are applicable to this activity

Activity	Science GLE	Social Studies GLE	Math GLE	Language Arts GLE
55: Planning the Ideal Community	**43.** Explain how the use of different energy resources affects the environment and the economy (SE-M-A6)	**4.** Explain ways in which goals, cultures, interests, inventions, and technological advances have affected people's perceptions and uses of places or regions in world history (G-1B-M4)		**3.** Develop specific vocabulary (e.g., scientific, content-specific, current events) for various purposes (ELA-1-M1) **GLE 17-48** are applicable to this activity
57: Democracy in Action				**3.** Develop specific vocabulary (e.g., scientific, content-specific, current events) for various purposes (ELA-1-M1) **7.** Explain the connections between ideas and information in a variety of texts (e.g., journals, technical specifications, advertisements) and real-life situations and other texts (ELA-1-M4) **15.**Identify persuasive techniques (e.g., unsupported inferences, faulty reasoning, generalizations) that reflect an author's viewpoint (perspective) in texts (ELA-7-M3) **GLE 17-48** are applicable to this activity
72: Air We Breathe	**41.** Identify risks associated with the production and use of coal, petroleum, hydroelectricity, nuclear energy, and other energy forms (PS-M-C8) **43.** Explain how the use of different energy resources affects the environment and the economy (SE-M-A6)	**4.** Explain ways in which goals, cultures, interests, inventions, and technological advances have affected people's perceptions and uses of places or regions in world history (G-1B-M4)	**13.** Use models and pictures to explain concepts or solve problems involving ratio, proportion, and percent with whole numbers (N-8-M) **20.**Calculate, interpret, and compare rates such as $/lb., mpg, and mph (M-1-M) (A-5-M) **30.** Describe and analyze trends and patterns observed in graphic displays (D-2-M)	**3.** Develop specific vocabulary (e.g., scientific, content-specific, current events) for various purposes (ELA-1-M1) **11.** Demonstrate understanding of information in grade-appropriate texts using a variety of strategies, **13.** Use technical information and other available resources (e.g., software programs, manuals) to solve problems (ELA-7-M2) **GLE 17-48** are applicable to this activity
73: Waste Watchers	**25.** Compare forms of energy (e.g., light, heat, sound, electrical, nuclear, mechanical) (PS-M-C1) **26.** Describe and summarize observations of the transmission, reflection, and absorption of sound, light, and heat energy (PS-M-C1) **29.** Compare and/or investigate the relationships among work, power, and	**9.** Explain how different physical environments affected human activity in ancient civilizations (G-1D-M2) **10.** Analyze world or regional distribution of natural resources in terms of the need to import or the capacity to export (G-1D-M3)	**13.** Use models and pictures to explain concepts or solve problems involving ratio, proportion, and percent with whole numbers (N-8-M) **20.** Calculate, interpret, and compare rates such as $/lb., mpg, and mph (M-1-M) (A-5-M) **30.** Describe and analyze trends and	**3.** Develop specific vocabulary (e.g., scientific, content-specific, current events) for various purposes (ELA-1-M1) **7.** Explain the connections between ideas and information in a variety of texts (e.g., journals, technical specifications, advertisements) and real-

Activity	Science GLE	Social Studies GLE	Math GLE	Language Arts GLE
73: Waste Watchers	efficiency (PS-M-C2) **38.** Identify conditions under which thermal energy tends to flow from a system of higher energy to a system of lower energy (PS-M-C5) **39.** Describe how electricity can be produced from other types of energy (e.g., magnetism, solar, mechanical) (PS-M-C6) **41.** Identify risks associated with the production and use of coal, petroleum, hydroelectricity, nuclear energy, and other energy forms (PS-M-C8) **42.** Identify energy types from their source to their use and determine if the energy types are renewable, nonrenewable, or inexhaustible (SE-M-A6) **43.** Explain how the use of different energy resources affects the environment and the economy (SE-M-A6) **44.** Explain how an inexhaustible resource can be harnessed for energy production (SE-M-A6) **45.** Describe methods for sustaining renewable resources (SE-M-A6) **46.** Identify ways people can reuse, recycle, and reduce the use of resources to improve and protect the quality of life (SE-M-A6) **47.** Illustrate how various technologies influence resource use in an ecosystem (e.g., forestry management, soil conservation, fishery improvement) (SE-M-A8)	**14.** Use economic concepts (e.g., supply and demand, interdependence) to describe the economic motivations for expanding trade and territorial domination in world history (E-1A-M9)	patterns observed in graphic displays (D-2-M)	life situations and other texts (ELA-1-M4) **13.** Use technical information and other available resources (e.g., software programs, manuals) to solve problems (ELA-7-M2) **GLE 17-48** are applicable to this activity
82: Resource Go Round	**29.** Compare and/or investigate the relationships among work, power, and efficiency (PS-M-C2) **39.** Describe how electricity can be produced from other types of energy (e.g., magnetism, solar, mechanical) (PS-M-C6) **42.** Identify energy types from their source to their use and determine if the energy types are renewable, nonrenewable, or inexhaustible (SE-M-A6) **43.** Explain how the use of different energy resources affects the environment and the economy (SE-M-A6)	**4.** Explain ways in which goals, cultures, interests, inventions, and technological advances have affected people's perceptions and uses of places or regions in world history (G-1B-M4) **10.** Analyze world or regional distribution of natural resources in terms of the need to import or the capacity to export (G-1D-M3) **14.** Use economic concepts (e.g., supply and demand, interdependence) to describe the economic motivations for expanding		**3.** Develop specific vocabulary (e.g., scientific, content-specific, current events) for various purposes (ELA-1-M1) **7.** Explain the connections between ideas and information in a variety of texts (e.g., journals, technical specifications, advertisements) and real-life situations and other texts (ELA-1-M4) **11.** Demonstrate understanding of information in grade-appropriate texts using a variety of strategies, **13.** Use technical information and other

Activity	Science GLE	Social Studies GLE	Math GLE	Language Arts GLE
82: Resource Go Round	**44.** Explain how an inexhaustible resource can be harnessed for energy production (SE-M-A6) **45.** Describe methods for sustaining renewable resources (SE-M-A6) **46.** Identify ways people can reuse, recycle, and reduce the use of resources to improve and protect the quality of life (SE-M-A6) **47.** Illustrate how various technologies influence resource use in an ecosystem (e.g., forestry management, soil conservation, fishery improvement) (SE-M-A8)	trade and territorial domination in world history (E-1A-M9)**18.** Describe the causes, effects, or impact of a given historical development or event in world civilizations (H-1A-M3)		available resources (e.g., software programs, manuals) to solve problems (ELA-7-M2) **GLE 17-48** are applicable to this activity
85: In the Driver's Seat	**29.** Compare and/or investigate the relationships among work, power, and efficiency (PS-M-C2) **41.** Identify risks associated with the production and use of coal, petroleum, hydroelectricity, nuclear energy, and other energy forms (PS-M-C8) **43.** Explain how the use of different energy resources affects the environment and the economy (SE-M-A6) **44.** Explain how an inexhaustible resource can be harnessed for energy production (SE-M-A6) **45.** Describe methods for sustaining renewable resources (SE-M-A6) **46.** Identify ways people can reuse, recycle, and reduce the use of resources to improve and protect the quality of life (SE-M-A6) **47.** Illustrate how various technologies influence resource use in an ecosystem (e.g., forestry management, soil conservation, fishery improvement) (SE-M-A8)	**14.** Use economic concepts (e.g., supply and demand, interdependence) to describe the economic motivations for expanding trade and territorial domination in world history (E-1A-M9)	**13.** Use models and pictures to explain concepts or solve problems involving ratio, proportion, and percent with whole numbers (N-8-M) **20.** Calculate, interpret, and compare rates such as $/lb., mpg, and mph (M-1-M) (A-5-M) **30.** Describe and analyze trends and patterns observed in graphic displays (D-2-M)	**3.** Develop specific vocabulary (e.g., scientific, content-specific, current events) for various purposes (ELA-1-M1) **13.** Use technical information and other available resources (e.g., software programs, manuals) to solve problems (ELA-7-M2) **GLE 17-48** are applicable to this activity
86 Our Changing World	**41.** Identify risks associated with the production and use of coal, petroleum, hydroelectricity, nuclear energy, and other energy forms (PS-M-C8) **43.** Explain how the use of different energy resources affects the environment and the economy (SE-M-A6)	**9.** Explain how different physical environments affected human activity in ancient civilizations (G-1D-M2) **10.** Analyze world or regional distribution of natural resources in terms of the need to import or the		**3.** Develop specific vocabulary (e.g., scientific, content-specific, current events) for various purposes (ELA-1-M1) **7.** Explain the connections between ideas and information in a variety of texts (e.g., journals,

Activity	Science GLE	Social Studies GLE	Math GLE	Language Arts GLE
86 Our Changing World		capacity to export (G-1D-M3) **18.** Describe the causes, effects, or impact of a given historical development or event in world civilizations (H-1A-M3)		technical specifications, advertisements) and real-life situations and other texts (ELA-1-M4) **11.** Demonstrate understanding of information in grade-appropriate texts using a variety of strategies, **GLE 17-48** are applicable to this activity
92: A Look at Lifestyles	**29.** Compare and/or investigate the relationships among work, power, and efficiency (PS-M-C2) **41.** Identify risks associated with the production and use of coal, petroleum, hydroelectricity, nuclear energy, and other energy forms (PS-M-C8) **42.** Identify energy types from their source to their use and determine if the energy types are renewable, nonrenewable, or inexhaustible (SE-M-A6) **43.** Explain how the use of different energy resources affects the environment and the economy (SE-M-A6)	**4.** Explain ways in which goals, cultures, interests, inventions, and technological advances have affected people's perceptions and uses of places or regions in world history (G-1B-M4) **9.** Explain how different physical environments affected human activity in ancient civilizations (G-1D-M2) **10.** Analyze world or regional distribution of natural resources in terms of the need to import or the capacity to export (G-1D-M3) **18.** Describe the causes, effects, or impact of a given historical development or event in world civilizations (H-1A-M3)		**3.** Develop specific vocabulary (e.g., scientific, content-specific, current events) for various purposes (ELA-1-M1) **7.** Explain the connections between ideas and information in a variety of texts (e.g., journals, technical specifications, advertisements) and real-life situations and other texts (ELA-1-M4) **11.** Demonstrate understanding of information in grade-appropriate texts using a variety of strategies, **13.** Use technical information and other available resources (e.g., software programs, manuals) to solve problems (ELA-7-M2) **GLE 17-48** are applicable