

SPRING GROVE AREA SCHOOL DISTRICT

PLANNED INSTRUCTION

Course Title:	Environmental Science	Length of Course:	30 Cycles
Grade Level(s):	11	Periods Per Cycle:	6
Units of Credit:	1.0	Length of Period:	43 Minutes
Required:	Core Science	Elective:	Total Instructional Time: 258 Minutes

Course Description: Environmental science is a multidisciplinary course that helps students better understand the relationship between humans and the world they live in. This course, as an applied science, will incorporate principles of chemistry and biology to help achieve practical goals. The focus of environmental science is conservation and the protection of natural resources.

Objectives of Planned Course:

1. The student will examine ecosystems and their interactions.
2. The student will identify the organization of life in various ecosystems.
3. The student will analyze how human action and natural changes affect the balance within an ecosystem.
4. The student will recognize the importance of biological diversity as it relates to the stability of an ecosystem.
5. The student will identify the impact of cycles on the ecosystem.
6. The student will analyze environmental laws and regulations as they relate to environmental issues.

Relationship to Academic Standards and Strategic Plan:
Science and Technology, Life Skills

Materials/Resources: Text Book:
Environmental Science (Holt, 2007), Handouts, Laboratory Equipment, Safety Equipment, Technology Equipment

Adopted: 11/20/91
Revised: 7/15/98; 11/15/01; 8/20/07

CONTENT	STANDARDS	GRADE-LEVEL BENCHMARKS GRADE SPECIFIC CRITERIA	INSTRUCTIONAL STRATEGIES LEARNING PRACTICES, ACTIVITIES AND EXPERIENCES	ASSESSMENTS
Introduction to Environmental Science *Understanding Our Environment	S11.A.1.1 Analyze and explain the nature of science in the search for understanding the natural world and its connection to technological systems	S11.A.1.1. Compare and contrast scientific theories, scientific laws, and beliefs (e.g., stages of ecological succession, environmental effects of hunter-gatherers, the agricultural revolution, and the industrial revolution)	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
ESSENTIAL QUESTIONS				
Why should we be concerned about our environment? What responsibilities do we have as intelligent beings on earth?				
TIME: 4 Days				
MATERIALS AND RESOURCES: Text, overhead and transparencies, worksheets, vocabulary list, lab activities, models, demonstrations, newspaper and other news media, poster paper and markers, internet, computer and projector, teacher-supplied materials				
ENRICHMENT AND EXPANDED OPPORTUNITIES: Webquests, creating stories or comic strips, research/lab extension, analysis and compilation of data, group leader, power point presentations, publishing journal entries, connection to current events				
REMEDATION AND INTERVENTION STRATEGIES: Review prior material, individual tutoring, peer tutoring, re-teaching, re-testing, word wall, graphic organizer, flash cards, reinforcement through visual aids, review game, verbal assessment, connection to current events				

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Environmental Science – Gr. 11 Introduction to Environmental Science *The Environment and Society *Making Informed Decisions	S11.A.1.1 Analyze and explain the nature of science in the search for understanding the natural world and its connection to technological systems	S11.A.1.1.2 Analyze and explain how to verify the accuracy of scientific facts, principles, theories, and laws	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 Tools of Environmental Science *Scientific Methods *Statistics and Models *Making Informed Decisions	S11.A.1.1 Analyze and explain the nature of science in the search for understanding the natural world and its connection to technological systems	S11.A.1.1.3 Evaluate the appropriateness of research questions (e.g., testable vs. not-testable)	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 Tools of Environmental Science *Scientific Methods *Making Informed Decisions	S11.A.1.1 Analyze and explain the nature of science in the search for understanding the natural world and its connection to technological systems	S11.A.1.1.5 Analyze or compare the use of both direct and indirect observation as means to study the world and the universe (e.g., functions of organisms in an ecosystem)	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 Tools of Environmental Science *Statistics and Models *Making Informed Decisions	S11.A.1.2 Identify and analyze the scientific or technological challenges of societal issues; propose possible solutions and discuss implications	S11.A.1.2.1 Apply and explain scientific concepts to societal issues using case studies (e.g., sea level change, deforestation, environmental health, energy use)	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 Tools of Environmental Science *Statistics and Models *Making Informed Decisions TIME: 4 Days	S11.A.1.3 Describe and interpret patterns of change in natural and human-made systems	S11.A.1.3.3 Describe how changes in physical and biological indicators (e.g., soil, plants, or animals) of water systems reflect changes in these systems (e.g. changes in bloodworm populations reflect changes in pollution levels in streams)	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 Tools of Environmental Science *Scientific Methods	S11.A.2.1 Apply knowledge of scientific investigation or technological design to develop or critique aspects of the experimental or design process	S11.A.2.1.1 Critique the elements of an experimental design (i.e., raising questions, formulating hypotheses, developing procedures, identifying variables, manipulating variables, interpreting data, and drawing conclusions) applicable to a specific experimental design	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 Tools of Environmental Science *Scientific Methods *Statistics and Models *Making Informed Decisions TIME: 2 Days	S11.A.2.1 Apply knowledge of scientific investigation or technological design to develop or critique aspects of the experimental or design process	S11.A.2.1.4 Critique the results and conclusions of scientific inquiry for consistency and logic	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 Tools of Environmental Science *Scientific Methods *Statistics and Models *Making Informed Decisions TIME: 3 days	S11.A.2.2 Evaluate appropriate technologies for a specific purpose, or describe the information the instrument can provide	S11.A.2.2.1 Evaluate appropriate methods, instruments, and scale for precise quantitative and qualitative observations (e.g., to compare water quality)	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 The Hydrosphere & Biosphere	S11.A.3.1 Analyze the parts of a simple system, their roles, and their relationships to the system as a whole	S11.A.3.1.1 Apply systems analysis, showing relationships (e.g., flowcharts, decision trees, dichotomous keys, mind map), input and output, and measurements to explain a system and its part	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 Hydrosphere & the Biosphere	S11.A.3.2 Compare observations of the real world to observations of a constructed model	S11.A.3.2.1 Compare the accuracy of predictions represented in a model to actual observations and behavior	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 The Organization of Life *Ecosystems: Everything is Connected	S11.A.3.2 Compare observations of the real world to observations of a constructed model	S11.A.3.2.2 Describe advantages and disadvantages of using models to simulate processes and outcomes	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
TIME: 2 Days				
MATERIALS AND RESOURCES: Text, overhead and transparencies, worksheets, vocabulary list, lab activities, models, demonstrations, newspaper and other news media, poster paper and markers, internet, computer and projector, teacher-supplied materials				
ENRICHMENT AND EXPANDED OPPORTUNITIES: Webquests, creating stories or comic strips, research/lab extension, analysis and compilation of data, group leader, power point presentations, publishing journal entries, connection to current events				
REMEDIAL AND INTERVENTION STRATEGIES: Review prior material, individual tutoring, peer tutoring, re-teaching, re-testing, word wall, graphic organizer, flash cards, reinforcement through visual aids, review game, verbal assessment, connection to current events				

CONTENT	STANDARDS	GRADE-LEVEL BENCHMARKS GRADE SPECIFIC CRITERIA	INSTRUCTIONAL STRATEGIES, LEARNING PRACTICES, ACTIVITIES AND EXPERIENCES	ASSESSMENTS
Environmental Science – Gr. 11 The Organization of Life *Ecosystems: Everything is Connected *Evolution *The Diversity of Living Things	S11.A.3.2 Compare observations of the real world to observations of a constructed model	S11.A.3.2.3 Describe how relationships represented in models are used to explain scientific or technological concepts (e.g., life spans, size of populations, topographic maps)	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
TIME: 4 Days				
MATERIALS AND RESOURCES: Text, overhead and transparencies, worksheets, vocabulary list, lab activities, models, demonstrations, newspaper and other news media, poster paper and markers, internet, computer and projector, teacher-supplied materials				
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Environmental Science – Gr. 11 The Organization of Life *Ecosystems: Everything is Connected *Evolution	S11.A.3.3 Compare and analyze repeated processes or recurring elements in patterns	S11.A.3.3.2 Compare stationary physical patterns (e.g., tree rings) to the object's properties	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
TIME: 1 Day				
MATERIALS AND RESOURCES: Text, overhead and transparencies, worksheets, vocabulary list, lab activities, models, demonstrations, newspaper and other news media, poster paper and markers, internet, computer and projector, teacher-supplied materials				
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Environmental Science – Gr. 11 The Organization of Life *Ecosystems: Everything is Connected *Evolution *The Diversity of Living Things How Ecosystems Work *Energy Flow in Ecosystems	S11.B.1.1 Explain structure and function at multiple levels of organization	S11.B.1.1.1 Explain how structure determines function at multiple levels of organization (e.g., chemical, cellular, anatomical, ecological)	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 The Organization of Life *Ecosystems: Everything is Connected How Ecosystems Work *Energy Flow in Ecosystems *The Diversity of Living Things	S11.B.1.1 Explain structure and function at multiple levels of organization	S11.B.1.1.2 Compare and contrast the structural and functional similarities and differences among living things (e.g., classify organisms as herbivores, omnivores, carnivores; relationships between organisms)	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 How Ecosystems Work *Energy Flow in Ecosystems *The Cycling of Materials	S11.B.1.1 Explain structure and function at multiple levels of organization	S11.B.1.1.3 Compare and contrast cellular processes (e.g., photosynthesis and cellular respiration)	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 The Organization of Life *Ecosystems: Everything is Connected *Evolution *The Diversity of Living Things How Ecosystems Work *Ecological Succession	S11.B.3.1 Use evidence or examples to explain the characteristics of and interactions within an ecosystem	S11.B.3.1.1 Explain the significance of diversity in ecosystems	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 The Organization of Life *Ecosystems: Everything is Connected *Evolution *The Diversity of Living Things How Ecosystems Work *Energy Flow in Ecosystems *Cycling of Materials *Ecosystem Changes	S11.B.3.1 Use evidence or examples to explain the characteristics of and interactions within an ecosystem	S11.B.3.1.2 Explain the biotic (i.e., plant, animal, and microbial communities) and abiotic (i.e., soil, air, temperature, and water) components of an ecosystem and their interaction	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
TIME: 4 Days	MATERIALS AND RESOURCES: Text, overhead and transparencies, worksheets, vocabulary list, lab activities, models, demonstrations, newspaper and other news media, poster paper and markers, internet, computer and projector, teacher-supplied materials			
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Environmental Science – Gr. 11 The Organization of Life *Ecosystems: Everything is Connected *Evolution *The Diversity of Living Things How Ecosystems Work *Energy Flow in Ecosystems *Cycling of Materials *Ecosystem Changes	S11.B.3.1 Use evidence or examples to explain the characteristics of and interactions within an ecosystem	S11.B.3.1.3 Describe how living organisms affect the survival of one another	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 Biomes *Definition *Forest Biomes *Grassland, Desert, Tundra Biomes TIME: 8 Days	S11.B.3.1 Use evidence or examples to explain the characteristics of and interactions within an ecosystem	S11.B.3.1.4 Explain the similarities and differences in the major biomes (e.g., desert, tropical rain forest, temperate forest, coniferous forest, tundra) and the communities that inhabit them	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
MATERIALS AND RESOURCES: Text, overhead and transparencies, worksheets, vocabulary list, lab activities, models, demonstrations, newspaper and other news media, poster paper and markers, internet, computer and projector, teacher-supplied materials				
ENRICHMENT AND EXPANDED OPPORTUNITIES: Webquests, creating stories or comic strips, research/lab extension, analysis and compilation of data, group leader, power point presentations, publishing journal entries, connection to current events				
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Environmental Science – Gr. 11				
<p>Understanding Populations *Size Change in Populations *Species Interactions</p> <p>Biomes *Limiting Factors</p>	<p>S11.B.3.1 Use evidence or examples to explain the characteristics of and interactions within an ecosystem</p>	<p>S11.B.3.1.5 Predict how limiting factors (e.g., physical, biological, chemical factors) can affect organisms</p>	<p>Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams</p>	<p>Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations</p>
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<p>MATERIALS AND RESOURCES: Text, overhead and transparencies, worksheets, vocabulary list, lab activities, models, demonstrations, newspaper and other news media, poster paper and markers, internet, computer and projector, teacher-supplied materials</p>				
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Environmental Science – Gr. 11 Understanding Populations *Size Change in Populations *Species Interactions The Human Population *Studying Human Populations *Changing Population Trends	S11.B.3.2 Analyze patterns of change in natural or human-made systems over time	S11.B.3.2.1 Use evidence to explain how cyclical patterns in population dynamics affect natural systems	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
TIME: 6 Days				
MATERIALS AND RESOURCES: Text, overhead and transparencies, worksheets, vocabulary list, lab activities, models, demonstrations, newspaper and other news media, poster paper and markers, internet, computer and projector, teacher-supplied materials				
ENRICHMENT AND EXPANDED OPPORTUNITIES: Webquests, creating stories or comic strips, research/lab extension, analysis and compilation of data, group leader, power point presentations, publishing journal entries, connection to current events				
REMEDICATION AND INTERVENTION STRATEGIES: Review prior material, individual tutoring, peer tutoring, re-teaching, re-testing, word wall, graphic organizer, flash cards, reinforcement through visual aids, review game, verbal assessment, connection to current events				

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Environmental Science – Gr. 11				
Biodiversity *Definition *Biodiversity at Risk *The Future of Biodiversity	S11.B.3.2 Analyze patterns of change in natural or human-made systems over time	S11.B.3.2.2 Explain biological diversity as an indicator of a healthy environment	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
TIME: 6 Days				
MATERIALS AND RESOURCES: Text, overhead and transparencies, worksheets, vocabulary list, lab activities, models, demonstrations, newspaper and other news media, poster paper and markers, internet, computer and projector, teacher-supplied materials				
ENRICHMENT AND EXPANDED OPPORTUNITIES: Webquests, creating stories or comic strips, research/lab extension, analysis and compilation of data, group leader, power point presentations, publishing journal entries, connection to current events				
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Environmental Science – Gr. 11 Biodiversity *Definition *Biodiversity at Risk *The Future of Biodiversity	S11.B.3.2 Analyze patterns of change in natural or human-made systems over time	S11.B.3.2.3 Explain how natural processes (e.g., seasonal change, catastrophic events, habitat alterations) impact the environment over time	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
TIME: 6 Days				
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Environmental Science – Gr. 11 Nonrenewable Energy *Energy Resources and Fossil fuels *Nuclear Energy Renewable Energy	S11.B.3.3 Explain how human-made systems impact the management and distribution of natural resources	S11.B.3.3.1 Describe different human-made systems and how they use renewable and nonrenewable natural resources (e.g., energy, transportation, distribution, management, and processing)	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
TIME: 8 Days				
MATERIALS AND RESOURCES: Text, overhead and transparencies, worksheets, vocabulary list, lab activities, models, demonstrations, newspaper and other news media, poster paper and markers, internet, computer and projector, teacher-supplied materials				
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Environmental Science – Gr. 11 Water *Water Use and Management Land *Land Use *Land Management and Conservation Food and Agriculture *Feeding the World TIME: 6 Days	S11.B.3.3 Explain how human-made systems impact the management and distribution of natural resources	S11.B.3.3.2 Compare and contrast the impact of management practices (e.g., production, processing, research, development, marketing, distribution, consumption, by-products) in meeting the need for commodities locally and globally	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 Food and Agriculture *Feeding the World *Crops and Soil *Animals and Agriculture TIME: 6 Days	S11.B.3.3 Explain how human-made systems impact the management and distribution of natural resources	S11.B.3.3.3 Explain the environmental benefits and risks associated with human-made systems (e.g., integrated pest management, genetically engineered organisms, organic food production)	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 Mining & Mineral Resources *Minerals and Mineral Resources Nonrenewable Energy *Energy Resources and Fossil Fuels *Nuclear Energy Renewable Energy *Alternative Energy Sources TIME: 8 Days	S11.C.2.2 Demonstrate that different ways of obtaining, transforming, and distributing energy have different environmental consequences	S11.C.2.2.1 Explain the environmental impacts of energy use by various economic sectors (e.g., mining, logging, transportation) on environmental systems)	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 Renewable Energy *Renewable Energy Today *Alternative Energy and Conservation	S11.C.2.2 Demonstrate that different ways of obtaining, transforming, and distributing energy have different environmental consequences	S11.C.2.2.2 Explain the practical use of alternative sources of energy (i.e., wind, solar, and biomass) to address environmental problems (e.g., air quality, erosion, resource depletion)	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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REMEDATION AND INTERVENTION STRATEGIES: Review prior material, individual tutoring, peer tutoring, re-teaching, re-testing, word wall, graphic organizer, flash cards, reinforcement through visual aids, review game, verbal assessment, connection to current events				

CONTENT	STANDARDS	GRADE-LEVEL BENCHMARKS GRADE SPECIFIC CRITERIA	INSTRUCTIONAL STRATEGIES, LEARNING PRACTICES, ACTIVITIES AND EXPERIENCES	ASSESSMENTS
Environmental Science – Gr. 11 Renewable Energy *Renewable Energy Today *Alternative Energy and Conservation Nonrenewable Energy *Acid Precipitation *Greenhouse Effect	S11.C.2.2 Demonstrate that different ways of obtaining, transforming, and distributing energy have different environmental consequences	S11.C.2.2.3 Give examples of renewable energy resources (e.g., wind, solar, biomass) and nonrenewable resources (e.g., coal, oil, natural gas) and explain the environmental and economic advantages and disadvantages of their use	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
TIME: 6 Days				
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Environmental Science – Gr. 11 Waste *Reducing Solid Waste *Hazardous Waste The Environment and Human Health *Pollution and Human Health *Biological Hazards Economics, Policy, and the Future	S11.D.1.2 Analyze how human-made systems impact the management and distribution of natural resources	S11.D.1.2.1 Evaluate factors affecting availability, location, extraction, and use of natural resources	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 Land Use Waste Management Water Use & Management Renewable versus Non-renewable Resources	S11.D.1.2 Analyze how human-made systems impact the management and distribution of natural resources	S11.D.1.2.2 Explain the impact of obtaining and using natural resources for the production of energy and materials (e.g., resource renewal, amount of pollution, deforestation)	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 Water *Water Resources *Water Use and Management *Water Pollution	S11.D.1.3 Explain the significance and contribution of water as a resource to living things and the shaping of the land	S11.D.1.3.3 Explain factors (e.g., nutrient loading, turbidity, rate of flow, rate of deposition, biological diversity) that affect water quality and flow through a water system	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
TIME: 4 Days				
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Environmental Science – Gr. 11 Atmosphere and Climate Change *Climate and Climate Change *The Ozone Shield *Global Warming TIME: 4 Days	S11.D.2.1 Analyze how the transfer of energy and substances between Earth's atmosphere and its surface influences regional or global weather or climate	S11.D.2.1.1 Describe how changes in concentration of minor components (e.g., O ₂ , CO ₂ , ozone, dust, pollution) in Earth's atmosphere are linked to climate change	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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Environmental Science – Gr. 11 Atmosphere and Climate Change *Climate and Climate Change *The Ozone Shield *Global Warming	S11.D.2.1 Analyze how the transfer of energy and substances between Earth's atmosphere and its surface influences regional or global weather or climate	S11.D.2.1.2 Compare the transmission, reflection, absorption, and radiation of solar energy to and by the Earth's surface under different environmental conditions (e.g., major volcanic eruptions, greenhouse effect, reduction of ozone layer; increased global cloud cover)	Laboratory activities Teacher demonstrations Research projects Worksheets Reinforcement and vocabulary worksheets Field activities Teacher-made lab activities Q&A sessions with partner Class discussion/debates Internet links Written stories, brochures, pamphlets Concept mapping Visual aids: charts, diagrams	Objective test Performance-based test Quizzes Homework Self-check Journal writing Oral presentations Quiz game Research projects Construct a labeled model Graph interpretations Map interpretations Essays Illustrations Lab write-ups Compose a story Construct a comic strip Power-point presentations
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