



Bow High School - Course Map

Course Title: Environmental Science Fall
Department: Science

Unit Name: Introduction & Safety
Topics: <ul style="list-style-type: none">• Lab Safety• Ecological Concept Review - Cycling of Matter, Flow of Energy
School Competencies: <ul style="list-style-type: none">• Readiness (Awareness - Foundational)• Executive Functioning (Wellness)
Course Competencies: <ul style="list-style-type: none">• n/a
Formative Assessments: <ul style="list-style-type: none">• n/a
Summative Assessments: <ul style="list-style-type: none">• Safety Quiz



Bow High School - Course Map

Unit Name: Land, Water, & Community Ecology
Topics: <ul style="list-style-type: none">• Watersheds• Stream Health & Water Chemistry• NH Fish Species• Community Ecology
School Competencies: <ul style="list-style-type: none">• Critical Thinking (Problem Solving & Analysis - Foundational)• Interpretation (Problem Solving & Analysis - Foundational)• Logical Processing (Problem Solving & Analysis - Foundational)
Course Competencies: <ul style="list-style-type: none">• Ecology & Energy• Sustainability & Energy• Human Interactions & Ecology
Formative Assessments: <ul style="list-style-type: none">• Daily Check-in Questions for every class period• Field Work Data: Water Chemistry Data Collection and Analysis• Model My Watershed, pt. 1• ArcGIS: How Clean is Your Watershed?• Lab: Water Chemistry
Summative Assessments: <ul style="list-style-type: none">• Project: Water Quality Report• Written Exam: Land, Water & Community Ecology



Bow High School - Course Map

Unit Name: Climate Change & Stormwater Management
Topics: <ul style="list-style-type: none">• Runoff and infiltration• Stormwater management• LID principles• Climate Change & Climate Adaptation
School Competencies: <ul style="list-style-type: none">• Critical Thinking (Problem Solving & Analysis - Foundational)• Interpretation (Problem Solving & Analysis - Foundational)• Logical Processing (Problem Solving & Analysis - Foundational)• Innovation (Problem Solving & Analysis - Advanced)• Sustainable Living (Wellness - Advanced)
Course Competencies: <ul style="list-style-type: none">• Human Interactions & Ecology
Formative Assessments: <ul style="list-style-type: none">• Daily Check-in Questions for every class period• Stormwater Management & Photo Challenge• Model my Watershed, pt. 2• Model my Watershed, pt. 3• Documentary: Water Blues, Green Solutions
Summative Assessments: <ul style="list-style-type: none">• Project: Stormwater Management & Low Impact Development (student chosen location)• Exam: Stormwater & Low Impact Development Practice & Principles



Bow High School - Course Map

Unit Name: Resource Management - Forestry
Topics: <ul style="list-style-type: none">• Climate Change & Natural Resources• NH Timber Industry - Tree ID, Forest Community ID, Calculating Timber• Invasive Species Impact on Forests
School Competencies: <ul style="list-style-type: none">• Critical Thinking (Problem Solving & Analysis - Foundational)• Interpretation (Problem Solving & Analysis - Foundational)• Logical Processing (Problem Solving & Analysis - Foundational)• Innovation (Problem Solving & Analysis - Advanced)• Sustainable Living (Wellness - Advanced)
Course Competencies: <ul style="list-style-type: none">• Sustainability & Energy• Human Interactions & Ecology
Formative Assessments: <ul style="list-style-type: none">• Daily Check-in Questions for every class period• Lab: Forest Habitat Types• Practice: Calculating Merchantable Lumber• Activity: Invasive Species Impact on Forests
Summative Assessments: <ul style="list-style-type: none">• Lab Practical: Forest Management Concepts• Exam: Forestry Management Scenario