

Curriculum Overview.....	1
Module 1, Day 1: Essential Skill Development	6
Background and Foundations.....	7
Overbrook Overview.....	8
Visual Literacy - Technology In and Out of the Classroom.....	9
Communication Strategies.....	9
Module 1, Day 2: Essential Skill Development	14
Climate Change.....	15
Climate Change Impacts in Philadelphia	17
Environmental Justice	17
Human Rights and the Environment.....	20
Professional Development.....	21
Module 2: Reduce Reuse Recycle ReTHINK.....	29
Waste Management Overview.....	30
Where Trash Goes	31
Litter	35
Zero Waste and Litter Philadelphia.....	35
Module 3: Food and Nutrition	42
Agriculture	43
Nutrition.....	45
Sugary beverages	46
Urban Gardening & Community Gardening	46
Farmers Markets	47
CSAs & Share Food Program.....	47
Alternative Diets	48
Compost.....	48
Composting in Philadelphia	50
Module 4: Transportation & Power.....	56
History of US Transportation	57
Transportation today in cities.....	58
Transportation Around the World.....	60
Alternative Fuel Cars	62

Energy overview	62
Energy in Philadelphia	63
Fracking in Pennsylvania	65
World Energy Use	65
Module 5: Air Pollution and Domestic Toxins	72
Pollution Overview	73
Outdoor air pollution	74
Clean Air Act	75
Indoor Air Pollution	77
Domestic Toxins	79
Lead Hazards in Philadelphia	82
Module 6: Pests and Pest Management	89
Pests Overview	90
History of pesticide use	90
Federal Insecticide, Fungicide and Rodenticide Act	92
Pests in Nature	93
Integrated Pest Management	93
IPM in agriculture	94
IPM in homes	95
Module 7: Water Sources and Supply	98
Drinking Water History in Philadelphia	99
Watersheds	100
Drinking Water Protection	100
Where Water is Stored	102
Module 8: Natural & Urban Water Cycles	109
The Natural Water Cycle	111
The Urban Water Cycle	114
Purification	114
Global Water Issues	115
Bottled water	116
Module 9: Wastewater and Stormwater	120
History of Sewers and Wastewater Treatment	121
Sewer Infrastructure in Philadelphia	122

Clean Water Act	125
Wastewater Management.....	126
Module 10: Environmental Cultural History (Mill Creek Field Trip).....	138
Module 11: Land Cover, Land Use, and Water.....	139
Land Use and Shorelines	140
Wetlands	140
Land Cover, Land Use and Water	141
Module 12: Green Stormwater Infrastructure	151
Green Stormwater Infrastructure (GSI)	152
GSI Examples	153
GSI Co-Benefits	160
Urban Heat Island Effect	161
GSI on homes and on schools.....	163
Module 13: Nature and the Built Environment.....	171
Biophilia and biomimicry.....	172
LEED Certification	173
Module 14: Waterways Assessment (Field Study at Indian/Cobbs Creeks).....	180
Waterways Assessment	181
Module 15: Environment and the Future	184