

## Logic Model for Rainforest Ed-Venture Program with associated Evaluation Questions

The Bexley Middle School Rainforest Ed-Venture and Service Exchange Program provides a global environmental education program for Bexley Middle School which supports and enriches the regular academic curriculum by providing non-formal, field based learning opportunities for a diverse array of learners.

### GOALS:

- To foster awareness and knowledge in the middle school student about the interconnected nature of the global environment and global society
- To develop the knowledge, attitudes, and skills needed for middle school students to be active participants in local and international environmental service learning activities
- To encourage ongoing concern for and participation in environmental issues and decision making

### OBJECTIVES:

Upon completion of the 7<sup>th</sup> grade field program, Ed-Venture program participants will:

- Explain the importance of biodiversity and give 5 reasons for global biodiversity decline.
- Describe 3 climatic factors that distinguish a temperate deciduous forest (Beech-Maple Association) from a tropical lowland forest (Holdridge Tropical Wet Life Zone).
- Identify by sight 5 indicator species in their local beech-maple temperate forest and 5 indicator species in their tropical lowland forest study sight in Costa Rica.
- Create species lists for temperate and tropical forests, by recording all species observed in the “biodiversity checklist” section of Ed-Venture field journal.
- Accurately and efficiently use binoculars to find wildlife in at least 3 different habitats in the temperate zone and the tropical zone
- Safely and responsibly use hand lenses, nets, and other field equipment to collect and observe wildlife, during at least 3 field study activities during the Ed-Venture.
- Observe nature quietly and complete a guided journal activity to record the sights, sounds, and smells experienced during 2 independent nature study activities.
- Participate in 3 Ed-Venture environmental service activities or field trips prior to departure.
- Identify 1 environmental issue that is found both in Bexley and Costa Rica, and write a proposal for collecting and sharing data between communities.
- Assist at least 1 Costa Rican community conservation group with environmental data collection.
- Share their Ed-Venture experience with elementary students and community members by creating and delivering at least 1 interactive lessons or PowerPoint presentation.
- Agree to mentor future Ed-Venture participants and attend at least 3 Ed-Venture meetings, fieldtrips, or fundraising activities the following year.

Inputs	Outputs		Outcomes		
	Activities	Participants	Short	Medium	Long
<b>Staff</b> Program Coordinators Teachers Administrators Field experts  <b>Money</b> Program Fees Coordinator Stipends Grant Funding Fundraising  <b>Facilities</b> Classrooms	<b>Pre-Departure Preparation</b> 18 student workshops 6 Parent meetings 6 Field trips 5 Fundraising/Advocacy events 3 Conservation service activities  <b>10 Day Field Program in Costa Rica</b> 6 Field Workshops 3 Science in the	15 – 30 middle school students  1-2 teacher chaperones  2-3 parent chaperones	<u>Participants will:</u> Describe the importance of biodiversity  Explain the climactic differences between temperate and tropical ecosystems  Identify indicator species in temperate and tropical forests  Create a personal species list for temperate and tropical forests  Observe nature quietly using their 5	<u>Participants will be able to:</u> Choose an environmental topic for their 8 <sup>th</sup> grade International Baccalaureate Personal Project  Complete required course work to obtain high school credit for the Ed-Venture field program during their 8 <sup>th</sup> grade year  Share the Ed-Venture experience with elementary school children through interactive presentations during their 8 <sup>th</sup> grade year	<u>GOAL # 1</u>  Foster awareness and knowledge in the middle school student about the interconnected nature of the global environment and global society

<p>Computer Lab Jeffrey Woods Camp Tar Hollow</p> <p><b>Materials/ Equipment</b> Resource/Reference materials Field equipment Art supplies Website PowerPoint presentations</p> <p><b>Partners</b> <u>US</u> Bexley City Schools Bexley Parks &amp; Rec Columbus Audubon Metro Parks Franklin Park Conservatory Cincinnati Zoo Cleveland Zoo</p> <p><u>Costa Rica</u> Armonia Natural Sarapiquí Conservation Learning Center INBio Amadita Primary School City of Coronado Village of Monserat Village of Chilamate Best Adventure Travel</p>	<p>Rainforest sessions 3 Cultural Exchange Activities 2 conservation service activities</p> <p><b>Follow Up Advocacy</b> 18 student meetings 3 Field Trips 2 Ed-Venture presentations to elementary students 1 local environmental service project 1 Service Exchange program in Costa Rica</p> <p><b>Publications</b> Student Handbook Student Field Journal Ed-Venture web-journal</p> <p><b>Curriculum</b> 7<sup>th</sup> grade non-credit curriculum  8<sup>th</sup> grade credit curriculum</p> <p><b>Events</b> Recycle for the Rainforest Earth Day Event Environmental Service Day</p>		<p>senses</p> <p>Create a nature journal</p>	<p>Act as student mentors for future Ed-Venture participants and attend in pre-departure activities and field trips during their 8<sup>th</sup> grade year</p>	
			<p><u>Participants will:</u> Demonstrate their ability to use binoculars and other field equipment safely and responsibly</p> <p>Identify 1 environmental issue that impacts both Bexley and Costa Rica and write a proposal for collecting and sharing data between communities</p> <p>Assist at least 1 Costa Rican community conservation group with environmental data collection during the field program.</p>	<p><u>Participants will be able to:</u> Mentor other BMS students in the use of binoculars and field equipment during BMS science class fieldtrips and Camp Tar Hollow Camp.</p> <p>Design and lead an environmental service learning activity as part of their 8<sup>th</sup> grade BMS advisory</p> <p>Return to Costa Rica as a participant in the 8<sup>th</sup> grade Environmental Service Exchange program.</p>	<p><u>GOAL #2:</u> Develop the knowledge, attitudes, and skills needed for middle school students to be active participants in local and international environmental service learning activities</p>
			<p><u>Participants will:</u> Participate in 3 Ed-Venture environmental service activities or field trips prior to departure.</p>	<p><u>Participants will be able to:</u> Voluntarily attend 3 local environmental programs/projects sponsored by community organizations including the school, city, and local conservation organizations during their 8<sup>th</sup> grade year.</p>	<p><u>GOAL #3:</u> Encourage on-going concern for and participation in environmental issues and decision making</p>