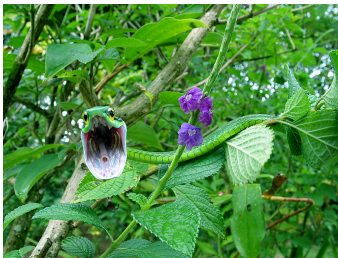
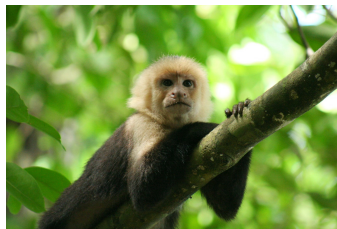


# Canadian Organization for Tropical Education and Rainforest Conservation

## Educational Resource

---

Lesson & Activity Plans  
Evaluation Rubrics  
Based on the Ontario  
Curriculum Expectations



CANADIAN ORGANIZATION FOR TROPICAL  
EDUCATION AND RAINFOREST CONSERVATION

ISBN 0-9811799

---

## COTERC Educational Manual Introduction

---

Tropical forests are beautiful, diverse and provide many global environmental services such as the sequestration of carbon dioxide, habitat for organisms, climate regulation and soil conservation. These fragile ecosystems are facing unprecedented stresses arising from habitat destruction, climate change, pollution and many other variables. The Canadian Organization for Tropical Education and Rainforest Conservation (COTERC) is devoted to the protection and conservation of tropical forests through research and educational initiatives. The aim of COTERC is to stimulate interest and to promote the conservation of tropical forests through the educational activities presented in this resource manual.

All lesson plans, activities and demonstrations presented in this educational manual are designed to facilitate understanding of the complex issues facing tropical ecosystems. All activities were prepared in accordance with the current Ontario Curriculum Expectations. Where applicable, evaluation rubrics and student handout sheets are included with the lesson or activity plan. These may be photocopied or placed on overhead transparencies to reduce the amount of paper consumed during your lesson delivery.

Some lesson plans may be modified for multiple courses by reviewing the current Ontario Curriculum Expectations or through the use of the Curriculum Cross-Reference Tool (*please note that in some cases specific curriculum expectations have not been listed with cross-referenced lesson plans*). Enjoy implementing the activities.

*\*All lesson and activity plans may be modified or adjusted as required to accommodate your learning environment.*

*Lesson plans, activities and edits prepared by Christina Phillips, Joanna Romani and Catherine Rodriguez. Lesson plan format has been adapted from the Common Threads Educational Manual (OSSTF Common Threads 3 Team).*

---

Table of Contents	Page
<b>Curriculum Cross-Reference Tool</b>	<b>1</b>
<b>Grade 9 Geography</b>	
<b>Design a Sea Turtle Pamphlet</b>	<b>2</b>
Design a Sea Turtle Pamphlet Student Handout Sheet	<b>3</b>
Design a Sea Turtle Pamphlet Evaluation Rubric	<b>4</b>
<b>Sea Turtle Presentation Project</b>	<b>5</b>
Sea Turtle Presentation Project Student Handout Sheet	<b>6</b>
Sea Turtle Presentation Project Evaluation Rubric	<b>7</b>
<b>Grade 9 Science</b>	
<b>Rainforest Walk of Fame</b>	<b>8</b>
Rainforest Walk of Fame Student Handout Sheet	<b>11</b>
Rainforest Walk of Fame Evaluation Rubric	<b>12</b>
<b>Rainforest Poster Project</b>	<b>13</b>
Rainforest Poster Project Student Handout Sheet	<b>15</b>
Rainforest Poster Project Evaluation Rubric	<b>16</b>
<b>Grade 10 Science</b>	
<b>Tropical Ecosystem Connectivity Demonstration</b>	<b>17</b>
<b>Plantation Goes Organic</b>	<b>44</b>
Banana Plantation Case Study Reading/Student Handout	<b>46</b>
<b>Year of the Frog Presentation Project</b>	<b>51</b>
Year of the Frog Presentation Student Handout Sheet	<b>52</b>
Year of the Frog Presentation Evaluation Rubric	<b>54</b>
<b>Grade 11 University Biology</b>	
<b>Tropical Rainforest Biodiversity Presentation Lesson Plan</b>	<b>55</b>
<b>Grade 11 College Biology</b>	
<b>Tropical Rainforest Biodiversity Presentation Lesson Plan</b>	<b>56</b>
<b>Biodiversity Presentation Notes</b>	<b>57</b>
<b>Grade 11 Geography</b>	
<b>Designing an Awareness Campaign</b>	<b>78</b>
Designing an Awareness Campaign Student Handout Sheet	<b>79</b>
Designing an Awareness Campaign Evaluation Rubric	<b>80</b>
<b>Building a Model Eco-friendly Resort</b>	<b>81</b>
Building a Model Eco-friendly Resort Student Handout Sheet	<b>82</b>
Building a Model Eco-friendly Resort Evaluation Rubric	<b>83</b>
<b>Additional References</b>	<b>84</b>

## Curriculum Cross-Reference Tool for Lesson Plans & Activities

Lesson/Activity Plan	Grade 9 Science	Grade 9 Geography	Grade 10 Science	Grade 11 Biology	Grade 11 Geography
Rainforest Walk of Fame	●				
Rainforest Presentation Project	●	●			
Tropical Ecosystem Connectivity Demonstration		●	●	●	●
Design a Sea Turtle Pamphlet	●	●	●		
Sea Turtle Presentation Project	●	●	●		
Year of the Frog Presentation Project	●	●	●		●
Banana Plantation Informal Debate			●		●
Tropical Rainforest Biodiversity Presentation		●	●	●	●
Designing an Awareness Campaign			●		●
Building a Model Eco-friendly Resort		●			●

**\*\*Please note that the intent of cross-referencing lesson plans is to demonstrate which lessons *could* be modified for a specific course (i.e. each lesson plan was developed for a specific course and expectation).**

## **Sources Included in this Teaching Manual**

---

### **Permission was obtained from Cape Breton Highlands National Park to modify a demonstration presented at Cheticamp:**

Date: Wed, 16 Apr 2008 13:52:57 -0300  
From: doug.heaney  
Subject: Ecosystem activity - from Cheticamp campground  
To: c.phillips

Hello Christina

Sorry for the delay in our response...your message trickled down to me from our national office via our library. The activity you're describing is a common one used in training initiatives and interpretive programs, but we don't own the rights to it or anything. In fact, I'm sure I've seen it in other group learning applications, not related to ecological integrity or Parks Canada. Please feel free to include it in your manual. Thanks for your inquiry - please let me know if you have any other questions.

Doug Heaney  
Heritage Presentation Specialist/Specialiste en matière de mise en valeur du patrimoine  
Atlantic Service Centre/Centre de services de l'Atlantique  
Parks Canada/Parcs Canada  
tel: 902-426-5019  
fax/télécopieur: 902-426-6881

### **Permission was obtained to format the lesson plans in this teaching manual in a similar way to OSSTF's 'Common Threats' manual:**

From: Bellissimo, Domenic  
Sent: Thu 11/09/2008 1:39 PM  
To: Phillips, Christina

Hi Christina,

It would be fine if you cite the OSSTF Common Threads 3 team. They adapted and created the format together following our field testing.

thanks for asking. do you need another copy of the tapped out resource?

Dom

**Permission was obtained to summarize and include the article  
on Banana Plantations by Carrie McCracken:**

Date: Sat, 13 Sep 2008 07:57:06 -0700 (PDT)  
From: Carrie McCracken  
Subject: Re: Banana Plantation Article  
To: c.phillips

Christina,

I am more than happy to allow you to use the article for your manual. My goal is to educate - so the more people that have the information the better. It is so important to raise awareness. And now the same situations are not only happening on banana plantations, but on pineapple plantations as well, which have rapidly expanded in Costa Rica. Please feel free to contact me if you have any questions or need any additional information - I am more than happy to help. Thank you for helping to educate others on the social/environmental problems associated with agroexport production - especially in the case of bananas.

Take care,  
Carri

