






# A Day with Trees: GRASP Lesson Planning Across the Grades

 <b>Goal</b>	 <b>Role</b>	 <b>Audience</b>	 <b>Scenario</b>	 <b>Product</b>
<p>To teach students in grade 4 that each tree on the school ground is itself a community of organisms.</p>	<p>Grade 6-7 students will be in role as <b>outdoor educators</b></p>	<p>Grade 2 students Plants and animals  Grade 4 students Habitat and community</p>	<p>An EcoSchool is enhancing its delivery of ecological literacy by connecting questions 1.6 and 3.3 of the EcoSchools Program. Students studying biodiversity in grade 6 or ecosystems in grade 7 will develop a tree tour geared to students in grades, 2 to 4. The students will then deliver the tree tours to the grade 4 students.</p>	<p>Product: tree tour that explains the "services" that each tree of the tour provides to the ecosystem in which it is embedded. Which organisms use the tree for habitat? Which organisms use the tree for food? What other services does the tree provide (e.g., storm water management, shade, beauty, wind-break)?  Performance: lead a group of grades 2 to 4 students on the tree tour</p>
<p>To implement an adopt-a-tree program for a Mulchathon.</p>	<p>Students in Grade 7 will be in role as <b>tree huggers</b></p>	<p>School teachers</p>	<p>Students will develop a tree tour for their EcoSchools EcoTeam advisor who is ("naturally") a tree hugger. The EcoTeam advisor will invite other teachers in the school on the tree tour, and then ask them to volunteer to adopt a tree, and have their classes participate in the school's upcoming Mulchathon.</p>	<p>Product: A Goggle Maps tree tour that highlights 1-2 special features of at least 5 trees on the school ground</p>
<p>To propose new software features to Google that would support the development of local tree tours.</p>	<p>Students in grade 10 science will be in role as <b>programmers</b>.</p>	<p>Google Inc., <a href="http://www.google.com/corporate/green/">http://www.google.com/corporate/green/</a></p>	<p>Google would like to be known as the greenest software company ever. Recognizing the important role that trees play in our cities, it is planning to launch new software features. It is challenging programmers to identify new features that would enable educators to use Google Maps and Google Earth to develop tree tours for their local communities.</p>	<p>Produce 1: A Google Maps tree tour that incorporates at least one hyperlinked website, one hyperlinked document, and four embedded photos  Product 2: A report on the features that Google should develop to enrich the Google Maps program and make it more valuable to educators</p>
<p>To inventory the local trees.</p>	<p>Grade 12 Geography students will be in role as <b>urban arborists</b>.</p>	<p>City of Toronto, Urban Forestry Services, <a href="http://www.toronto.ca/trees/">http://www.toronto.ca/trees/</a></p>	<p>The tree canopy in the City of Toronto currently covers 18% of the city, down from 22% several years ago. Many large trees are reaching the end of their lives, and their disappearance is contributing to the urban heat island effect. The City of Toronto has set the goal of increasing the canopy to 30% through an aggressive tree planting campaign. As part of the planning stage for tree selection, an inventory of the health and diversity of Toronto's trees is needed.</p>	<p>Students will determine the location and species of each tree on their local school ground or in the local community. They will map these trees using Google My Maps, making recommendations for which native tree species would enhance the existing stock of trees in the area studied.</p>