

CORE ACTIVITIES: Activities all SoYP participants will complete and report for comparison

[GLOBE protocol e-training](#)

Curriculum Step	Activity Name	Summary	Source
2-Collect	Max/Min Temperature	GLOBE protocol for collecting temperature data <i>Equipment needs: properly calibrated and installed maximum/minimum thermometer</i>	GLOBE: Maximum, Minimum, and Current Temperature
2-Collect	Trees Around the GLOBE Campaign	Take tree height, post data to GLOBE and ACCF websites, make comparisons with other groups' data. <i>Equipment needs: 50 m measuring tape, flexible measuring tape, handmade clinometer, data sheet, pencil</i>	Campaign Overview
2-Collect	Land Cover	Determine major land cover type, post data to GLOBE and ACCF websites, make comparisons with other groups' data. <i>Equipment needs: device with GLOBE Observer app: https://observer.globe.gov/about/get-the-app; optional : measuring tape</i>	GLOBE Observer: Land Cover

SUPPLEMENTAL ACTIVITIES: Activities that some SoYP participants may choose to complete, perhaps adapting them to fit their individual SoYP

Curriculum Step	Activity Name	Summary	Source
0-Prepare	"Sense" of Place	Use of concrete details and sensory language for reflecting on thoughts and feelings about a local place. Students free-write, discuss, peer-edit, and revise an essay in order to interpret historic photographs.	"Sense" of Place
0-Prepare	Discovering Your Sense of Place	Exploration of what students believe are the essential ingredients of community, how the appearance of their community contributes to their sense of place, how they feel about changes to their community, and how others in their community feel about this place where they live. These activities can be conducted all on one day, as stations, or they may be done individually over a period of days.	Discovering Your Sense of Place
0-Prepare	Teaching the Layers of the Forest Through Poetry and Writing	Introduce participants to the layers of the forest through sensory observations and poetry	Teaching the Layers of the Forest Through Poetry and Writing
2-Collect 3-Visualize	Data Collection, Mapping, and Population Pyramids in a Cemetery	Visit local cemetery to collect data & create maps, create data pyramid and compare with population pyramid from unknown data source (identified in teacher notes)	C-GEO: Data Collection, Mapping, and Population Pyramids in a Cemetery
4-Create/Act	Earth to Sky - Magic Windows	a tool (a transparent overlay) created as a way to illustrate geologic processes through the use of historic and contemporary photos	Magic Windows

OPTIONAL ACTIVITIES: Activities that may enhance learning about geography and place, but are not necessarily applicable to SoYP

Curriculum Step	Activity Name	Summary	Source
0-Prepare	Land Cover Walk	Participants walk across and record differences in the types of land cover to gain experiential awareness of different kinds of land cover and how those change across the surface of the land; to gain experience in identifying land cover types before recording observations with the GLOBE Observer app on a mobile device	GLOBE Land Cover Walk
0-Prepare	Ecoregions of Oregon: Many Pieces, One Puzzle	Use atlases and informational materials to research and discover varying aspects of defined Oregon Ecoregions	C-GEO: Ecoregions of Oregon
1-Ask	Geo-Inquiry Case Studies	Use these case studies as a model for Geo-Inquiry projects (large scale); have students work to identify driving questions and need-to-know questions. <i>Note that Geo-Inquiry differs slightly from SoYP in purpose, mostly in steps 4/5.</i>	National Geographic
2-Collect	Clouds	Classify clouds and estimate percentage of sky covered. <i>Equipment needs: device with GLOBE Observer app; optional - measuring tape</i>	GLOBE Observer: Clouds
2-Collect 3-Visualize	Just Plain Water	Investigate the acidity of a natural water source, compile data, and draw conclusions based on their findings and knowledge of acidity levels.	C-GEO: Just Plain Water
3-Visualize	Finding Patterns, Comparison	sort photos into categories - people, places, transportation, etc. and make observations about any patterns that are found; make comparisons to modern life	

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Curriculum Step	Activity Name	Summary	Source
3-Visualize	Range Distribution Changes of the American Bullfrog due to Human Impacts	Map Analysis	C-GEO: Bullfrog - Invasive Species
3-Visualize	Spatial Changes to Salem, Oregon area from 1876 to 2014	Map Analysis	C-GEO: Spatial Changes to Salem, Oregon area from 1876 to 2014
3-Visualize	Looking at the California Gold Rush	This lesson includes analysis of historical photographs and political cartoons, with analysis tools included	C-GEO: Looking at the California Gold Rush
3-Visualize	How a City Street Changes Over Time	Create an urban survey map to compare with Sanborn maps to understand change over time; extensions include graphing possibilities	C-GEO: How a City Street Changes Over Time