



PEGASUS EARTH 4D

Environmental Studies Training Program (Grades 9-12)

ABOUT THE PROGRAM

Earth 4D is Skystone's flagship two-day high school environmental program — an intensive, field-science and inquiry-driven experience designed to take students deep into five environmental studies topic areas. Over two full days, students go beyond textbook concepts to conduct real investigations, analyze authentic data, and prepare as a team for Envirothon™-style competitive challenges. Earth 4D builds the knowledge, confidence, and collaborative skills that define strong environmental thinkers and competitors.

 **Envirothon Competition Ready:** Earth 4D is purpose-built around the five official Envirothon™ topics — Wildlife, Forestry, Aquatics, Soils, and Climate Change — providing the depth and breadth students need to compete at regional and national levels.

TOPICS COVERED

 Wildlife	 Forestry	 Aquatics	 Soils	 Climate Change
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DAY 1 — FOUNDATIONS & FIELD SCIENCE

Time	Session	Envirothon Topic
8:30 – 9:00	Program Overview, Team Formation & Envirothon™ Briefing	Program Overview
9:00 – 10:00	Soil Science in Action — Horizons, Health & Land Use	Soils
10:00 – 11:00	Aquatic Ecosystems — Water Quality, Macroinvertebrates & Watershed Health	Aquatics
11:00 – 11:15	Break	
11:15 – 12:15	Wildlife Ecology — Species ID, Taxonomy, Biodiversity	Wildlife
12:15 – 1:00	Lunch & Reflection Journal	
1:00 – 2:00	Forest Science — Stand Assessment, Succession & Silviculture	Forestry
2:00 – 3:00	Topic Rotation: Field Stations (All 5 Areas)	All Topics
3:00 – 3:30	Day 1 Debrief & Team Strategy Session	



DAY 2 — DEEP DIVE & COMPETITION PREP

Time	Session	Envirothon Topic
8:30 – 9:00	Warm-Up Challenge & Day 1 Review	All Topics
9:00 – 10:15	Climate Change Deep Dive — Systems, Data Analysis & Policy Scenarios	Climate Change
10:15 – 11:15	Cross-Topic Case Study: Integrated Environmental Problem Solving	All Topics
11:15 – 11:30	Break	
11:30 – 12:15	Envirothon Written Station Practice (Timed)	All Topics
12:15 – 1:00	Lunch & Team Preparation Time	
1:00 – 2:15	Full Envirothon Simulation — Field Stations & Oral Presentation	All Topics
2:15 – 3:00	Scoring, Debrief & Coaching Feedback	
3:00 – 3:30	Certificates, Program Wrap-Up & Competition Pathway Discussion	

WHAT'S INCLUDED

- 10 expert-led subject sessions across 2 days
- Full challenge simulation (Day 2)
- Timed written station practice
- Oral presentation coaching
- Field investigation kits & data sheets
- Certified Skystone facilitators
- Personalized team performance feedback
- Completion certificates

WHO IS THIS FOR?

- Grades 9–12 students
- Biology, environmental science & geography classes
- Eco clubs and environmental leadership groups
- Schools actively competing or planning to enter Envirothon
- Groups of 10–40 students

LEARNING OUTCOMES

By the end of Earth 4D, students will be able to:

- Demonstrate in-depth knowledge across all five Envirothon™ topic areas
- Conduct field-style environmental investigations using professional methodologies
- Analyze and interpret environmental data to draw evidence-based conclusions
- Perform under timed, Envirothon-style written station conditions
- Collaborate to develop and deliver a team oral presentation on a current issue

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