



## Integrating Environmental Education Curriculum into Outdoor Education & Recreation Programs

Association of Outdoor Education & Recreation webinar September 7, 2023: Part II of II

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Viristar Experiential Services

# **Outline of Session**



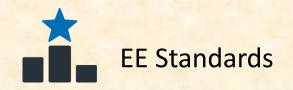
## **Principles & Concepts**



Defining Environmental Education (EE)



Effective EE: Research Findings







## Curriculum:

- Goals
- Lesson/activity plans
- Assessments
- Methodologies
- Syllabus

Limitations

# Curriculum



## **Curriculum: a plan for learning**

## Three components:

- Goals
- Lesson Plans/Activity Plans
- Assessment

## Adjunct:

• Syllabus

## Informed by methodologies

- Experiential education
- Adventure-based learning
- Inquiry-based learning
- Progression





**Establish goals first** 

## Goals: knowledge, skills, abilities and values

- Learners will understand...
- Learners will develop skills in...
- Learners will have the ability to...
- Learners will value...

Responsible Environmental Behavior

Skill in Using Action Strategies Knowledge of Action Strategies Locus of Control Beliefs, Values Knowledge of Issues Environmental Sensitivity Ecological Concepts



Five day hiking and climbing outdoor adventure education trip

- Objective 1: Learners will understand aspects of the natural history and ecology of the area.
- Objective 2: Learners will have opportunities to develop affective connections to the natural world.
- Objective 3: Learners will have opportunities to develop self-efficacy.
- Objective 4: Learners will learn about environmental issues.
- Objective 5: Learners will gain knowledge regarding action strategies for addressing environmental issues.





Day 1	Day 2	Day 3	Day 4	Day 5
<b>Themes: exploration</b>	Themes: nature,	Theme:	Theme: action	8 - 14 A - 38
& fun	culture, empowerment	environmental issues	strategies	
Group arrives 11:30	Rock climbing	Talus cave scramble	Return from	Pack up
	adventure		backpack	
Discovery day hike	Evening Program: Night hike	Backpack	Evening: Campfire, Town Hall	Group departs 9:30
Evening Program:	1	Evening:	71	
Campfire, songs,		environmental issues		C. The second
skits				
A: Basecamp	A: Basecamp	A: Backcountry	A: Basecamp	

VIRISTAR

 Learners will understand aspects of the natural history and ecology of the area.
 Method: Trailside activities & interpretation.

2: Learners will have opportunities to develop affective connections to the natural world.

Method: Solo time, sensory awareness, journaling, readings

3: Learners will have opportunities to develop self-efficacy. Method: Rock climbing

4: Learners will learn about environmental issues. Method: Lesson on threats to desert tortoise

5: Learners will gain knowledge regarding action strategies for addressing environmental issues.

Method: 'Town hall' debate on environmental issue; advocacy discussion



## Curriculum: Assessment

Please rate the following statements by circling a number from 1 to 5 (both on the left-hand column and on the right-hand column).

1 = strongly disagree, 2 = disagree, 3 = neutral, 4 = agree, 5 = strongly agree.

### Before the program

1	2	3	4	5	I understand ecological concepts.
1	2	3	4	5	I feel emotionally connected to nature.
1	2	3	4	5	I am aware of an environmental issue in my community.
1	2	3	4	5	People benefit when nature is healthy and not degraded.
1	2	3	4	5	I can make a difference.
1	2	3	4	5	I am aware of things I can do to help the environment.
1	2	3	4	5	I have the skills to take action on behalf of nature.



1	2	3	4	5
1	2	3	4	5
1	2	3	4	5
1	2	3	4	5
1	2	3	4	5
1	2	3	4	5
1	2	3	4	5



## Curriculum: Assessment

# VIRISTAR

### **Program-End Oral Interview**

- 1. In what areas were the goals of the program met?
- 2. In what areas were the goals of the program not met?
- 3. Was there anything you particularly liked about the program?
- 4. Are there things about the program that you wish had been different?
- 5. [Further questions about logistics, food service, safety, staffing, etc. can begin here]

# **Curriculum: Lesson Plans**

A description of how learning activity is conducted



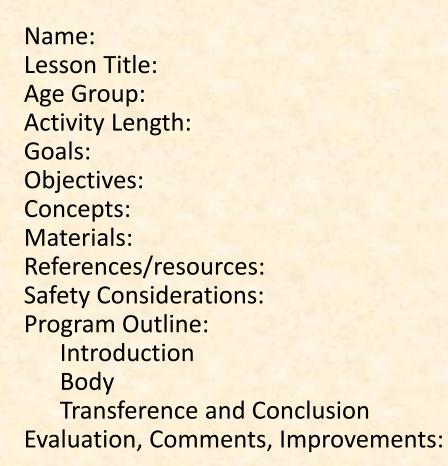
Intended learning outcomes, Learning activities, and Assessments of learning outcome achievement

### Learning activity section:

- Introduction
- Lesson Body
- Conclusion
- For each activity
- Written in advance
- Reviewed and approved in advance, as appropriate



## **Curriculum: Lesson Plans**



Date:

Size of Group: Activity Area: 

	Lesson	n Plan
lame:	Group:	Date:
Activity Title	:	
Participant A	Age(s): Activity Length:	Activity Area(s):
Materials	Re-usable/ Equipment:	
	Non-reusable:	
eferences &	& Resources:	
afety Consi	derations:	
Step 1: Outc	comes	
Knowledge, s developed di	skills, abilities or values uring the activity:	
developed du Step 2: Asse Assessing Ou Describe how	skills, abilities or values uring the activity: ssment utcomes Achievement	
Knowledge, s developed du Step 2: Asse Assessing Ou Describe hov	skills, abilities or values uring the activity: ssment utcomes Achievement w outcomes t will be evaluated	
Knowledge, s developed de Step 2: Asses Assessing Ou Describe how achievement Step 3: Learn	skills, abilities or values uring the activity: ssment utcomes Achievement w outcomes t will be evaluated	
Knowledge, s developed de Step 2: Asses Assessing Ou Describe how achievement Step 3: Learn Intro:	skills, abilities or values uring the activity: ssment utcomes Achievement w outcomes t will be evaluated	
Knowledge, s developed du Step 2: Asse Assessing Ou Describe how achievement	skills, abilities or values uring the activity: ssment utcomes Achievement w outcomes t will be evaluated	



	Lesson Plan		Step 3: Learning Activity	
Name:	Group:	Date:	Intro:	
Activity Title:				
Participant Age(s):	Activity Length:	Activity Area(s):		
Materials Re-usa	ble/ Equipment:			
			minutes	- 17
Non-re	usable:		Body:	1-12-12
References & Resource	es:			
Safety Considerations:				
Step 1: Outcomes				
Outcomes Knowledge, skills, abili	ties			
or values developed du the activity:	uring			
the detriny.			minutes	202
			Conclusion:	Sec. 1
Step 2: Assessment				
Assessing Outcomes				1 mail 11
Achievement Describe how outcome				
achievement will be			minutes	
evaluated			Notes	
				Sec. 1
				5221 (F. 2)
	1			

	Lesson Plan		Step 3: Learnin	ng Activity	
Name: Freida Fungi Activity Title: Half-day rod Participant Age(s): 14-15 Materials Re-usable/ E	Group: Midvale       Date: 2.023-05-01         ck climbing       Activity Length: 4 hours         Activity Length: 4 hours       Activity Area(s): Granite Wall         quipment: 3 toprope climbing sets, rescue pack	-	Intro: 45 minutes	<ol> <li>Welcome, site tour: introduce activity; set boundaries, safe zone, fall zone.</li> <li>Helmets &amp; harnesses.</li> <li>Safety briefing (see standard briefing in field handbook).</li> <li>Toneset/goal-setting. Encourage expanding comfort zone. Perceived vs. real risk. Discuss communication with belayer, asking for support from group.</li> <li>Belay school.</li> </ol>	VIRISTAR
Non-reusable         References & Resources:         Instructor Handbook         Safety Considerations:         Standard policies & prod         Step 1: Outcomes         Knowledge, skills, abilities or values developed during the activity:			Body: Body: <u>165 minutes</u> Conclusion:	<ul> <li>Participants climb, abseil/rappel and belay (with back-up staff belayer).</li> <li>During climbs and abseils, participants are encouraged to persevere, problem-solve, and ask for support (or quiet) from their belayer and group members while on the rock, in challenge by choice environment.</li> <li>After climbs/abseils, as staff are available, participants will be invited individually to process their experience, and discuss what helped them persevere when they got stuck or scared, and what was effective for them in asking for support from their belayer or other group members.</li> <li>For instance, participants may be asked how they found the resilience to continue, after getting stuck part way up a climb, or how they effectively worked with group members to ask for encouragement, quiet, advice about finding footholds, etc.</li> <li>All participants should have the opportunity to attempt multiple single-pitch climbs—either straightforward or challenging, their choice—abseil, and to belay.</li> <li>In addition to considering issues of resilience and teamwork, participants will be encouraged to enjoy themselves and have fun.</li> </ul>	
Step 2: Assessment Assessing Outcomes Achievement Describe how outcomes achievement will be evaluated	<ol> <li>Participants will be invited after climbs and during the post-activity debrief to share how the climbing activity influenced their attitudes towards challenge and working collaboratively with others.</li> <li>Participants will complete the pre-test/post-test evaluating resilience and collaboration at the end of the program.</li> </ol>		30 minutes Notes	<ul> <li>Debrief questions may include:</li> <li>What happened on the rocks for you today? What was significant for you?</li> <li>Why was that ciquificant for you?</li> <li>How does your experience working through challenges today influence how you might approach future challenges at home, work or school?</li> <li>How does asking for, receiving or giving the cupperly on roprested from your belayer or group members, or gave to climbers, influence how you might collaborate with others in the future to help achieve goals?</li> <li>Who belays you in your life? Who do you trust to support you?</li> <li>If you consider the rock wall to represent a challenge in your life, how does your taking on the challenges of climbing and abseiling—regardless of whether you completed any climbs or abseils—influence your attitude about taking on other challenges in life?</li> <li>Calibrate debriefing questions to the mood and engagement of participants.</li> </ul>	

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### **Experiential education**

A methodology in which educators purposefully engage with learners in direct experience and focused reflection.

### Application:

- Structured & unstructured nature exploration to build environmental sensitivity
- Visit degraded areas to learn about environmental issues, develop beliefs & values
- Develop internal locus of control through overcoming structured challenges
- Build skill in using action strategies via conservation & advocacy



## **Adventure-Based Learning**

An approach to learning in which learners overcome structured challenges to experience accomplishment & build confidence.

Application:

 Climbing, travel & other challenges foster internal locus of control and empower learners to take on environmental challenges



## **Inquiry-Based Learning**

An approach to learning in which learners are guided to pose questions and figure out how to answer them.

### Application:

- Excellent for learning about **natural history, ecology** and **environmental issues** through research and exploration
- Fosters engagement, curiosity and team skills



Day 1

: Basecamp

Themes: exploration &

### Progression

- Intentionally connecting learning activities to learners' prior experiences and previously gained knowledge (constructivism)
- Sequencing activities to build on each other
- Guiding learners through a sequence of cognitive processes (Bloom's taxonomy)

### Application:

- Exploring environmental issues learners have experienced increases engagement
- Progressing through cognitive processes from learning to analyzing & creating enables knowledge to be effectively used

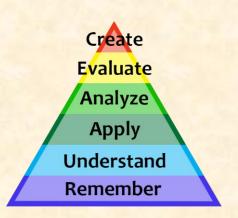
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other f	Discovery day hike	Evening Program: Night hike	Backpack	Evening: Campfire, Town Hall
)	Evening Program: Campfire, songs, skits		Evening: environmental issues	

culture,

Day 2

Themes: nature.

: Basecamp



: Backcountry

Day 3

environmental

Theme:

Dav 4

: Basecamp

**Theme:** action

strategies



Day 5

Group departs

Pack up

9:30

# Curriculum: Syllabus



An outline of the topic or activities of an educational experience, often describing them in chronological order.

Day 1	Day 2	Day 3	Day 4	Day 5
Themes: exploration	Themes: nature,	Theme: environmental	Theme: action	
& fun	culture,	issues	strategies	
Lat 1 Failer	empowerment	Frank Course		
Group arrives 11:30	Rock climbing	Talus cave scramble	Return from	Pack up
	adventure		backpack	
Discovery day hike	Evening Program:	Backpack	Evening: Campfire,	Group departs 9:30
	Night hike		Town Hall	
Evening Program:		Evening: environmental		
Campfire, songs, skits		issues		
A: Basecamp				
the second	A: Basecamp	A: Backcountry	A: Basecamp	

# Curriculum: Syllabus

	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
					41-1-1-40	
7:00	_	Marning Unit Time	Marning Unit Time	Morning Unit Time	Marning Linit Time	
7:00 3:00	-	Morning Unit Time	Morning Unit Time	Morning Unit Time Flag	Morning Unit Time	Pack Up/Clean Units
3:15	-	Flag Breakfast	Flag Breakfast	Breakfast	Flag Breakfast	
9:30	-	Dieakiast	Dreakiast	Dieakiast	Dieakiast	Breakfast @ 8:45
10:00						
10:30	-	and the second second	and the second second	and the second second		
11:00	-				0.0 2 1	
	-				Astivity A. Local Food	
11:30 12:00		1000		Activity 3. <i>Rock Wall</i> (Locus of Control)	Activity 4. Local Food, Gardening Time, Compost Tour Pack-out Lunch	
12:30 1:00		Lunch	Lunch	Lunch	(Ecological Concepts, Knowledge of Issues, Knowledge of Action Strategies, Skill in Using Action Strategies)	Lunch
1:30						
2:00		Me-Time	Me-Time	Me-Time	Me-Time	
2:30						
3:00	Camper	Activity 1. Micro Hike				
3:30	Check-In	(Ecological Concepts			Status and Status	Check-Out
4:00		Environmental				
4:30		Sensitivity)				
4.30 5:00				and the second se		
5:45	Dinner	Flag	Flag	Flag	Flag	
6:00		Dinner	Dinner	Dinner	Dinner	
7:30		Dimici		Dimici	Dinici	
8:00	Opening Campfire					
8:30				and the second	Closing Campfire	
0.30			Activity 2. Bat watching			
9:00			and Animal Dances (Knowledge of Issues, Beliefs & Values, Knowledge of Action Strategies)			
9:30	Evening Unit Time	Evening Unit Time	Evening Unit Time	Evening Unit Time	Evening Unit Time	
10:00	Lights Out	Lights Out	Lights Out	Lights Out	Lights Out	

# Limitations



- Reconcile with limits of time & resources
- Keep in mind fostering global environmental sustainability not fully in your control
- Further investment needed to account for age-related considerations, ability-related considerations (physical, learning & other disabilities), equity & inclusion in EE, and incorporation of traditional ecological knowledge



# Summary



### Curriculum:

- Goals
- Lesson/activity plans
- Assessments
- Methodologies
  - Experiential education
  - Adventure-Based Learning
  - Inquiry-Based Learning
  - Progression
- Syllabus

Limitations



## Further Information: viristar.com/aore-env-ed



North American Association for Environmental Education: <u>https://naaee.org/</u>

Global Environmental Education Partnership: <a href="https://thegeep.org/">https://thegeep.org/</a>

Journal of Environmental Education: <u>https://www.tandfonline.com/toc/vjee20/current</u>

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## Integrating Environmental Education Curriculum into Outdoor Education & Recreation Programs

Association of Outdoor Education & Recreation webinar September 7, 2023: Part II of II

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