# VIRGINIA

# ENVIRONMENTAL LITERACY STRATEGIC PLAN

Department of Conservation & Recreation Office of Environmental Education Cassiopeia Camara (she|her)



"...two positions in the Office of Environmental Education to provide increased opportunities for education programs on environmental issues across the Commonwealth, pursuant to § <u>10.1–104</u>, Code of Virginia. The Office of Environmental Education shall develop and implement environmental education programs and a Virginia Strategic Plan for environmental literacy in collaboration with the Department of Education, the Science Museum of Virginia STEM program, and other relevant stakeholders."



What do we mean by environmental education?

Environmental education (EE) is a process that allows individuals to explore environmental issues, engage in problem-solving, and take action to improve the environment, highlighting the interdependence of humans and the environment. EE happens in: • schools • nature centers museums • parks • backyards • community programs

\*Often hands on & experiential learning



# VAK-12 ENVIRONMENTAL LITERACY STRATEGIC PLAN

# What can a plan do?

Aim to equip formal and non-formal educators in providing students with the knowledge, skills, and dispositions necessary to become environmentally literate citizens who are capable of understanding and addressing the environmental challenges of the future.



# PHASE 1: DISCOVERY

APRIL 2023 - JANUARY 2024

Discovering our purpose and our desired future. The first phase focuses on gathering information and input.



#### DEFINE

The goal of this stage is to acquire a contextual understanding of EL in VA, and stakeholders.

DATA

# $\boldsymbol{\mathcal{N}}$ PROGRES Ζ

# PHASE 2: DEVELOPMENT

JANUARY 2024 - DECEMBER 2024

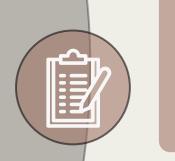
Developing the road map & assessment tools for success, identifying priorities and strategic development. Finalizing.



JANUARY 2025 - AUGUST 2025

Release to public and begin implementation and assessment stages.





DEVELOP Present data & identify priorities. Develop initiatives, objectives & strategies to move from conception to action & outline plan.



Produce a written SP. Completion & visualization conclude.



#### DELIVER Public debut of plan DEBUT

Begin implementation, including continuous assessment, with the 2025-2026 school year

Collect in depth data and resources, synthesize information, and conduct qualitative analysis to identify themes.

#### DRAFTING

## PHASE ONE

#### 22 ORGANIZATIONS

#### Interviews

- Across VA, individually & collectively
- Who are the players?
- What do Virginians care about?
- When do things take place?
- Where is most of the action?
- Why does EE in VA look the way it does?

Contextual Landscape of Environmental Education in Virginia

## PHASE 1: DISCOVERY

Discovering our purpose and our desired future. The first phase focuses on gathering information and input.

STAGE 1: DEFINE The goal of this stage is to acquire a contextual understanding of EL in VA, and stakeholders.







#### 4 1 O R G A N I Z A T I O N S

The Workshop October 2023

1. Draft high-level goals for advancing environmental literacy in VA together.

2. Gather data to inform strategies to support high-level goals.

3. Cultivate a sense of ownership for the plan, and a commitment to support implementation.





#### STAGE 2: DATA

Collect in depth data and resources, synthesize information, and conduct qualitative analysis to identify themes.



#### PHASE TWO

# 67 ORGANIZATIONS85 PARTICIPANTS

#### JANUARY CONVENING

- Share updates
- Get feedback
- Volunteer sign up for Spring workgroups
  - Vision, Goals 1-4

## PHASE 2: DEVELOPMENT

Developing the road map & assessment tools for success, identifying priorities and strategic development. Finalizing.

STAGE 1: DEVELOP Present data & identify priorities. Develop initiatives, objectives & strategies to move from conception to action & outline plan.





PHASE TWO



**SPRING WORK GROUPS** March/April 2024

Vision: The vision for Virginia is to cultivate environmentally literate K-12 students who develop a deep appreciation for their environment and emerge as stewards for their communities and beyond.

Plan Goals: Network and Capacity Building Educator Support Student-Centered Approach

Resource Optimization



## PHASE TWO

Content Draft Developed May 2024

Feedback Requested June -July 2024

- Larger Stakeholder Group, 67 organizations
- Advisory Team
  - Chesapeake Bay Commission, VA Soil & Water
    Conservation District Association, Science Museum
    of VA, Virginia Association of Environmental
    Education, National Oceanic & Atmospheric
    Association, Department of Education, Virginia
    Environmental Literacy Network
  - Addition of measurable metrics section
- DCR Leadership

## PHASE 2: DEVELOPMENT

Developing the road map & assessment tools for success, identifying priorities and strategic development. Finalizing.

#### STAGE 2: DRAFTING

Produce a written SP. Completion & visualization conclude.





# C O L L A B O R A T O R S

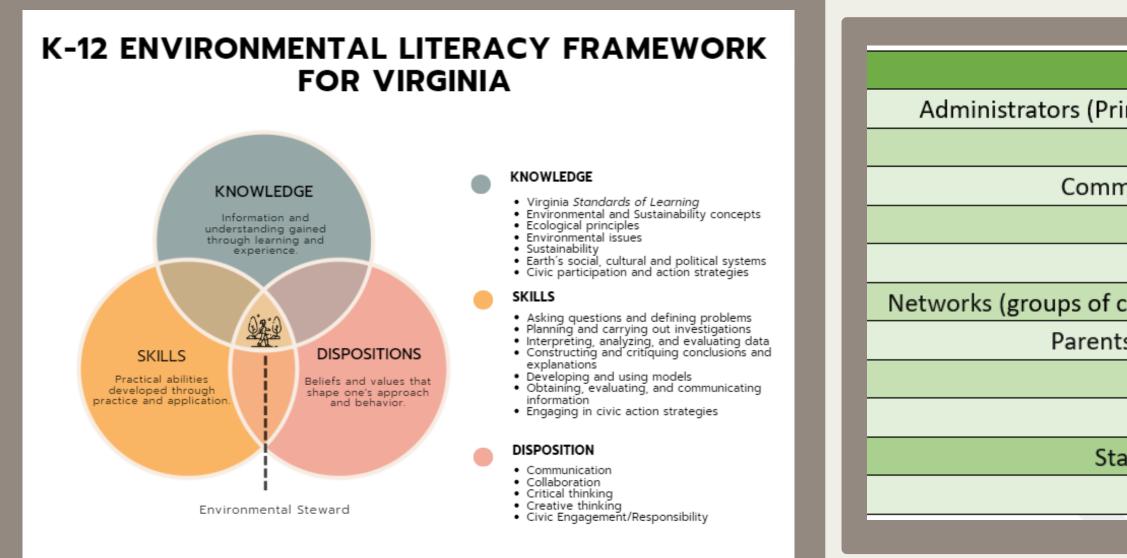
Alliance for the Bay	JASON
Blandy Experiential Farm	Learning for All
Blue Sky Fund	Local Concepts LLC
Boxerwood Education Association	Lord Fairfax Community College
Chesapeake Bay Commission	Lynnhaven River Now
Chesapeake Bay Foundation	Mariners Museum
City of Richmond, James River Park System	Massanutten Regional Governor's School
Clinch River Valley Institute	Mattaponi Future Fund
CodeVA	Mattaponi Tribe
Collaborative Teaching and Learning Group Consulting, LLC	Maymont Foundation
Department of Conservation & Recreation (multiple offices)	NASA Langley Research Center (ADNET)
Department of Education (multiple offices)	National Institute of Aerospace
Department of Forestry	National Oceanic and Atmospheric Administration
Dinwiddie County Public Schools	National Park Service
Eastern Woodland Revitalization	Nature Bridge
Elizabeth River Project	Nature By Nurture
Franklin County Public Schools	New College Institute
Friends of the Rappahannock	North American Association for Environmental
Hanover County Public Schools	Education
Hanover-Caroline Soil and Water Conservation District	Old Dominion University
Hero Kids Foundation	Pamunkey Tribal Member
James River Association	Prince William Soil and Water Conservation District
James River Soil and Water Conservation District	Rockingham County Public Schools
	Science Museum of Virginia

Science Museum of Western Virginia Tennessee River Basin Network The Mariners' Museum and Park The Virginia Commission for the Arts University of Virginia, State Arboretum of Virginia Virginia Association for Environmental Education Virginia Association of Science Teachers Virginia Association of Soil & Water Conservation Districts Virginia Cave Board Virginia Department of Wildlife Resources Virginia Environmental Justice Collaborative Virginia Institute of Marine Science Virginia Interfaith Power & Light Virginia Living Museum Virginia Resource Use and Education Council Virginia Science Education Leadership Association Virginia Sea Grant Virginia Tech Washington County Public Schools William and Mary Williamsburg Classical Academy rict



# CONTENT IN THE STRATEGIC PLAN

Encouraging new stakeholders with individualized and collaborative content



Participants

Administrators (Principals, Superintendents, Curriculum Coordinators)

**Business and Industry Partners** 

Community-based/Non-profit Organizations

Health Care Professionals

Institutes of Higher Education

Networks (groups of connected people that share information or resources)

Parents, Caregivers and Community Members

Philanthropy

School and Facility Operations

State and Local Government Agencies

Teachers/Formal Education



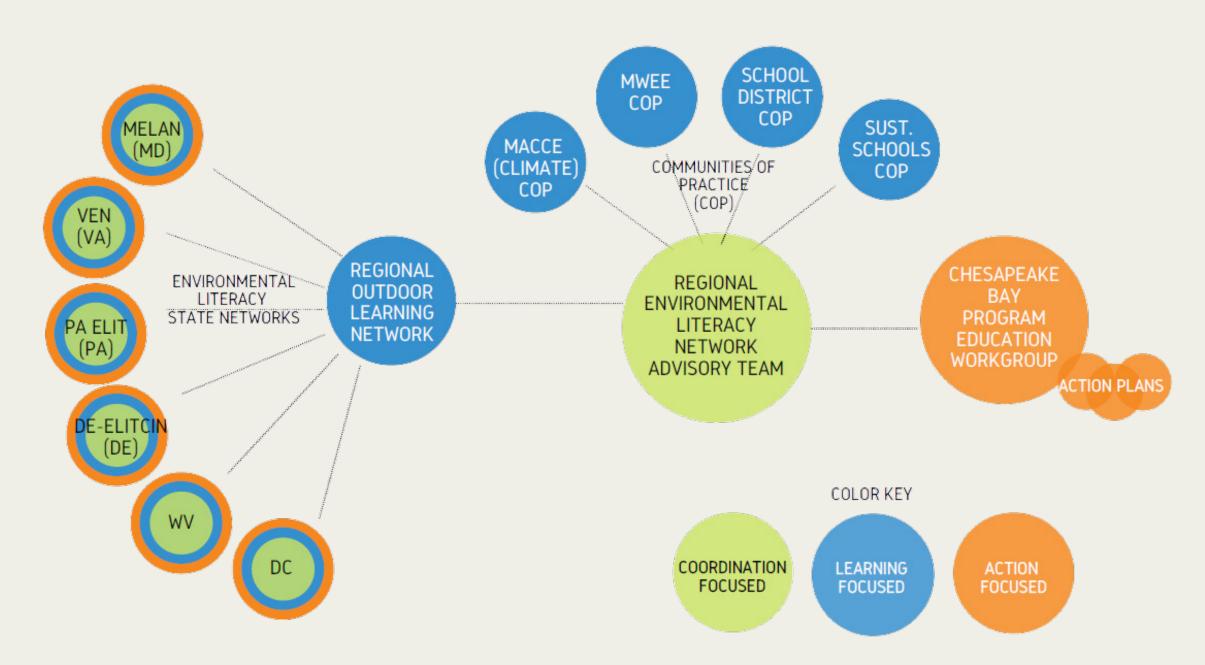
GOAL 1

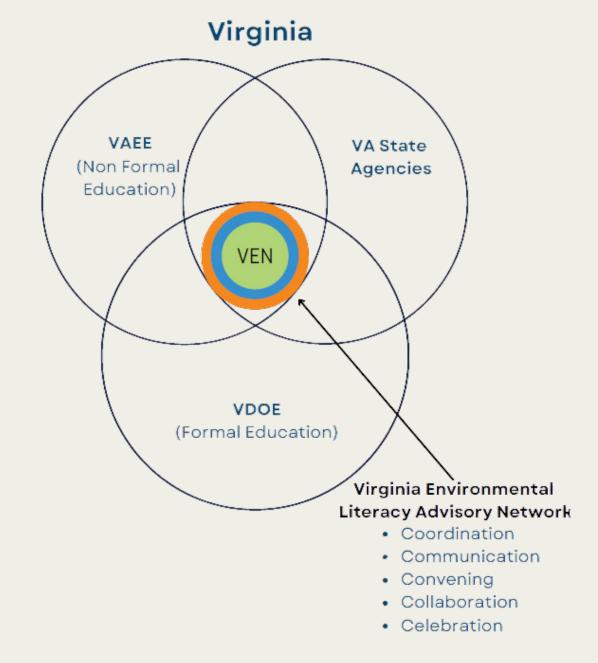
Network and Capacity Building: Foster collaborations among environmental education entities with shared interests to cultivate a sustainable, interconnected network across Virginia.

#### **Environmental Literacy Ecosystem of Networks**

Mid-Atlantic Region

This diagram visualizes some of the groups and networks that are interested in environmental literacy and are operating across the region. Currently, the region is defined as Maryland, Virginia, Pennsylvania, Delaware, West Virginia, and Washington DC.







#### Educator Support: Provide accessible and interdisciplinary professional learning opportunities in environmental education.

# GOAL 2



#### Outreach Opportunities

- DOE Learning Modules
- Virginia Association of **Environmental Education** Certification
- Project Learning Tree
- Project Wild

#### Services Education

- Sound practices for outdoor instruction
- Available programs
- Funding Opportunities

#### Partnerships State Parks

• Aligning existing programs with VA SOLs

#### Solving Baseline Data

Determining methods to collect • baseline data on existing opportunities to analyze future growth.



Student-Centered Approach: Promote a student-centered instructional approach that includes strategies to develop the academic, physical, cognitive and emotional well-being of students and integrates outdoor learning experiences, career readiness education, and community engagement.

## What is a MWEE?

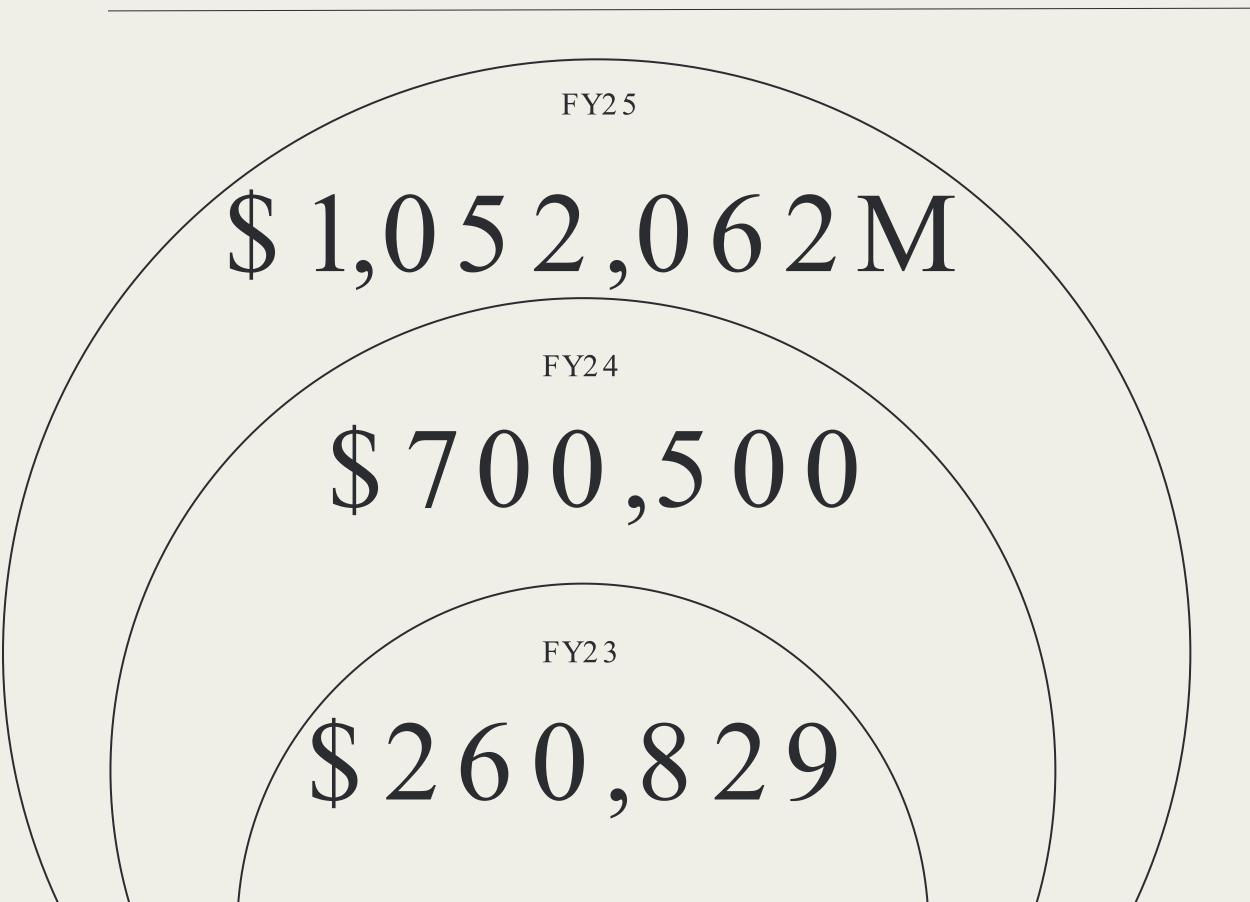
MWEEs are learner -centered experiences that delve into local environmental issues, fostering informed action and civic engagement while aligning with grade-level standards.

VA Department of Education recommends MWEEs at each school level (elementary, middle, high). These experiences encompass field investigations and action projects, serving as a comprehensive platform for cultivating environmentally literate graduates.





## GOAL 3/4: MWEE REQUESTED FUNDS



# Budget 250 k

# Increased Requests

- Financially
- Geographically

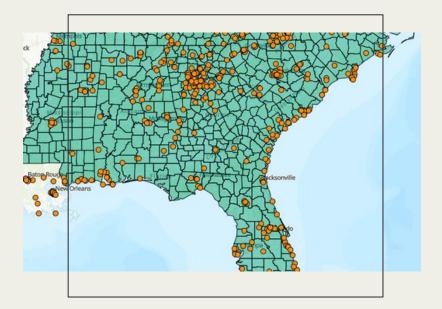
# Data

New data avenues



# GOAL 4

Resource Optimization: Ensure sustainable promotion and optimization of resources to achieve equitable access to environmental education for all students statewide.



#### Interactive Map GIS

- · Facilitates the mapping of environmental education service providers.
- Enables detailed data collection to visualize the distribution of resources across Virginia.
- Provides a dynamic tool for educators to explore and engage with local and statewide offerings.



#### Dashboard Directory

- Establishes a comprehensive directory of environmental education resources.
- Enables users to search and locate resources based on their geographic location and specific requirements.
- Fosters collaboration by connecting educators with resources that align with their teaching objectives. (SOL's)



## Landscape Analysis Data Collection

- environmental education service providers.
- · Identifies specific needs and areas with potential gaps in resources.
- statewide scales.

# **iSEE VA**

INTERACTIVE SOURCE FOR ENVIRONMENTAL EDUCATION

Systematically collects data on

• Empowers providers to assess the environmental education landscape on both local and



# OUR NUMBERS

1 year in operation 67 organizations

94 individuals

12 rounds of feedback



Collaborators Represent Businesses Government Agencies Higher Ed Institutions Non-Governmental Organizations School Systems Tribal Nations

# Thank you!

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