

# MATH IN THE HABITAT

Counting

Adding

Quantification

Estimating

Measuring

Graphing

Charting

Tables

Calculating

Comparing

Shadow Length

Temperature

Area

Perimeter

Diameter

Width

Height

Volume

Depth

Density

Capacity

Tracking

Geometry

Triangulation

Symmetry

Elevation

Level

Slope

Fractions

Ratio

Scale

Listing

Sorting

Classification

Sets

Order

Repeating

Patterns

Exponential Growth

Fibonacci Numbers

Statistics

Sampling

Trends

Analysis

Complex Problem-Solving

Money

Budget

Expenses

Economics

Schoolyard  
Habitats  
OUTREACH  
for  
York County & Poquoson

# LANGUAGE ARTS IN THE HABITAT

Clipboard Journal Pencil & Eraser

Communicating Describing Explaining

Summarizing Persuading

Anecdotes Oral Stories Improvisation

Prose Essays Poetry Storybooks

Rhyming Metaphors Similes

Vocabulary Decoding Interpretation

Listening to Others Asking Questions

Word Play Note Taking

Following Directions Logical Order

Focus Relevance Brevity Clarity

Formulating Theories Recordkeeping

Technical Writing Scientific Writing

Non-Fiction Reference Materials

News Articles Field Guides

# SOCIAL STUDIES IN THE HABITAT

Schoolyard  
Habitats  
**OUTREACH**  
for  
York County & Portsmouth

Community

Population

Geographic Regions

Land Forms

Watersheds

Bodies of Water

Atlantic Ocean

Chesapeake Bay

Map Skills

Cardinal Directions

Compass

Relationship

Producers/Consumers

Natural Resources

Supply

Scarcity

Local

Regional

National

Global

Changes Over Time

Climate

Anthropology

Native Americans

Explorers

Pioneers

Adaptations to Environment

Natural Remedies

Dilemmas

Compromise

Tradeoffs

Native American Connections to Nature

Nature-Inspired Inventions

Litter

Pollution

Civic Responsibility

Good Citizenship

Making Positive Contributions

# SCIENCE IN THE HABITAT

Nature Curiosity Respect

Observing Discovery

Identification Verification

Classifying Sequencing

Field Studies Measuring Quantifying

Predicting Hypothesizing Inferring

Field Trials Data Sets Replication

Collect Interpret Analyze Evaluate

Changes Over Time Seasons Life Cycles

Producers Consumers Decomposers

Flow of Energy Adaptations to Environment

Interdependencies Cycles Soil Composition

Native American Uses for Native Plants

Populations Communities Ecosystems

Habitat Health Critical Thinking

Respect for Wildlife and Nature

Environmental Stewardship

Schoolyard  
Habitats  
**OUTREACH**  
for  
York County & Poquoson

# INVESTIGATIVE TOOLS FOR THE HABITAT

Clipboard

Tablet with Camera

Hula Hoops

Marking Flags

Stakes and String

Level

Tracing Paper

Measuring Tape

Yard Stick/Meter Stick

Ruler

Vernier Caliper

Balance

Tweezers

Forceps

Strainers

Sieve

Stopwatch

Loupe

Magnifying Glass

Portable Scope

Monoculars/Binoculars

Compass

Sundial

Solar Radiometer

pH Meter

Moisture Meter

Thermometer

Wind Sock

Berlese Funnel

Sweep Net

Bug Boxes

Faunarium

Pop-up Hamper

Plant Press

Black Foam Foldout Panel

White Dishpans

Oversized Jar with Tight Lid

Yarn

Rope

Scraps of Wood

Trowels

Kneeling Pads

Carpet Squares

Bandanas

Rainboots

Stepstool

Field Guides



# CITIZEN SCIENCE FOR THE HABITAT

Journey North

iNaturalist

Virginia Wildlife Mapping

757 York/Poquoson Schoolyard Habitats

Monarch Watch

Project Monarch Health

Monarch Larva Monitoring Project

Nature's Notebook

Project Budburst

Bioblitz

Project NOAH

Project Squirrel

Lost Ladybug Project

eBird.org

Bird Counts

Bluebird Nestcam

Virginia Breeding Bird Atlas

Celebrate Urban Birds

NestWatch

Yard Map

WhatDoBirdsEat.com

Hummingbirds at Home

World Water Monitoring Challenge

SMAP/GLOBE

CoCoRaHS

S'COOL

mPING

Balloon Litter Research Study

WhatsInvasive.org

SatCam

# TECHNOLOGY TOOLS FOR THE HABITAT

Tablets

Smart Phones

Digital Photography

Sound Recorder

Weather Station

Thermometer

Barometer

Hygrometer

Light Meter

Anemometer/Wind Speed Gauge

Multi-Parameter Water Quality Meter

Soil Testing Kits

Probes

Scale

GPS

GIS

Satellite Feeds

Webcams

Digital Scope

Field Guide Apps

QR Codes

Scientific Calculators

Citizen Science

Online Data Submission

Multimedia

Webpage Design

Blogging

FaceBook

YouTube

Instagram

Twitter

Google Earth

# VISUAL ARTS IN THE HABITAT

Colors Shapes Texture Space

Illustrating Drawing Painting

Patterns Duplication Mimicry

Simplicity Complexity

Dimension Perspective

Abstract Proportional

Symmetrical/Asymmetrical

Design Structure Spectrum

Camouflage Shades of Green

Symbols Artifacts Context

Natural vs. Constructed by People

Ephemeral Artworks Garden Art

Natural Dyes Handmade Paper

Wall Murals Stepping Stones

Bottlecap Art Fine Motor Skills

Interpretive Dance

Dramatic Role-play

# MUSIC IN THE HABITAT

Listening

Sounds

Rhythms

Nature Chorus

Symphony

Soundscape

Bird Song

Frog Calls

Songs of Insects

Whistle

Chirp

Trill

Melody

Harmonics

Dynamics

Cacophony

Discord

Silence

Differentiation

Mimicking Sounds

Pitch

Tone

Tempo

Repetition

Phrasing

Range

Ascending

Descending

Rapping

Echo

Percussion

Spectrogram

Repertoire

Voice Box

Expression

Communication

Environmental vs. Mechanical Sounds

Making Instruments From Natural Objects

Seasonal Songs



# PHYSICAL FITNESS IN THE HABITAT

Exploratory Trek

Trail Walk

Continuous Movement

Loading/Unloading

Stacking/Unstacking

Digging

Spreading Mulch

Hand Watering

Hauling

Weeding

Fine Motor Skills

Employing Multiple Muscle Groups

Squatting

Balancing

Kneeling

Crawling

Bending

Twisting

Reaching

Tugging

Lifting

Building

Litter Collection

Transporting

Sweeping

Raking

Body Awareness

Hand-Eye Coordination

Role-Playing Animal Movements



# SPECIAL NEEDS EDUCATION

Stewardship

Involvement

Inquiry

Discovery

Hands-on Learning

Sensory Engagement

Auditory

Tactile

Olfactory

Tranquil Setting

Interdisciplinary Learning

Engaged in Wonder

Imagination Station

Calming

Reflection

Heightened Curiosity

Therapeutic

Tasks

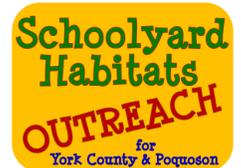
Free Play

Rejuvenation

Dramatic Role-play

*NWF's Access Nature*

Sense of Accomplishment



# LEARNING OUTCOMES FROM REGULAR INTERACTION WITH WILDLIFE HABITAT

Raised Awareness of Local Outdoor Environs

Heightened Natural Curiosity

Engaged Students

Citizen Scientists

Peer Cooperation

Collaboration

Improved Interdisciplinary Research Skills

Enriched Environmental Literacy

Exposure to Authentic Problem-Solving

Ability to Embrace and Learn from Failure

Added Confidence with Decision-Making

Pride in Group Accomplishment

School Village Engagement

Vibrant Community Partnerships

Re-Connection with Nature

Sense of Place and Interconnectivity

Respect for Natural World

Environmental Stewardship