

### **SITE PLAN**

Illustrative plan depicting the 20-acre property with its extensive storm water system and overall landscape program. Design was guided through community outreach and charrettes, integrating S.T.E.A.M. principles intended to inspire, teach, and entertain visitors of all ages.



#### FUTURE SITE - COMMUNITY CENTER

#### **COMMUNITY GARDEN & BARBEQUE**

**BIRD HOUSES** 

**BAT ROCKET HOUSES** 

**EVENTS LAWN** 

**STAGE PAVILION** 

OUTDOOR CLASSROOM

AMPHITHEATER

**BOCCE COURT** 

**OBSERVATION AREA: CUSTOM SEATING,** INTERPRETATION SIGNAGE, NATIVE ANIMAL **TRACK IMPRINTED CONCRETE** 

POETRY ROCK INSTALLATION

WATER CYCLE ART INSTALLATION

GLASS CULLET "TEMPORAL WATER RIPPLES" **INSTALLATION** 

**"GOHON NO KI" 5-TREES INSTALLATION** 

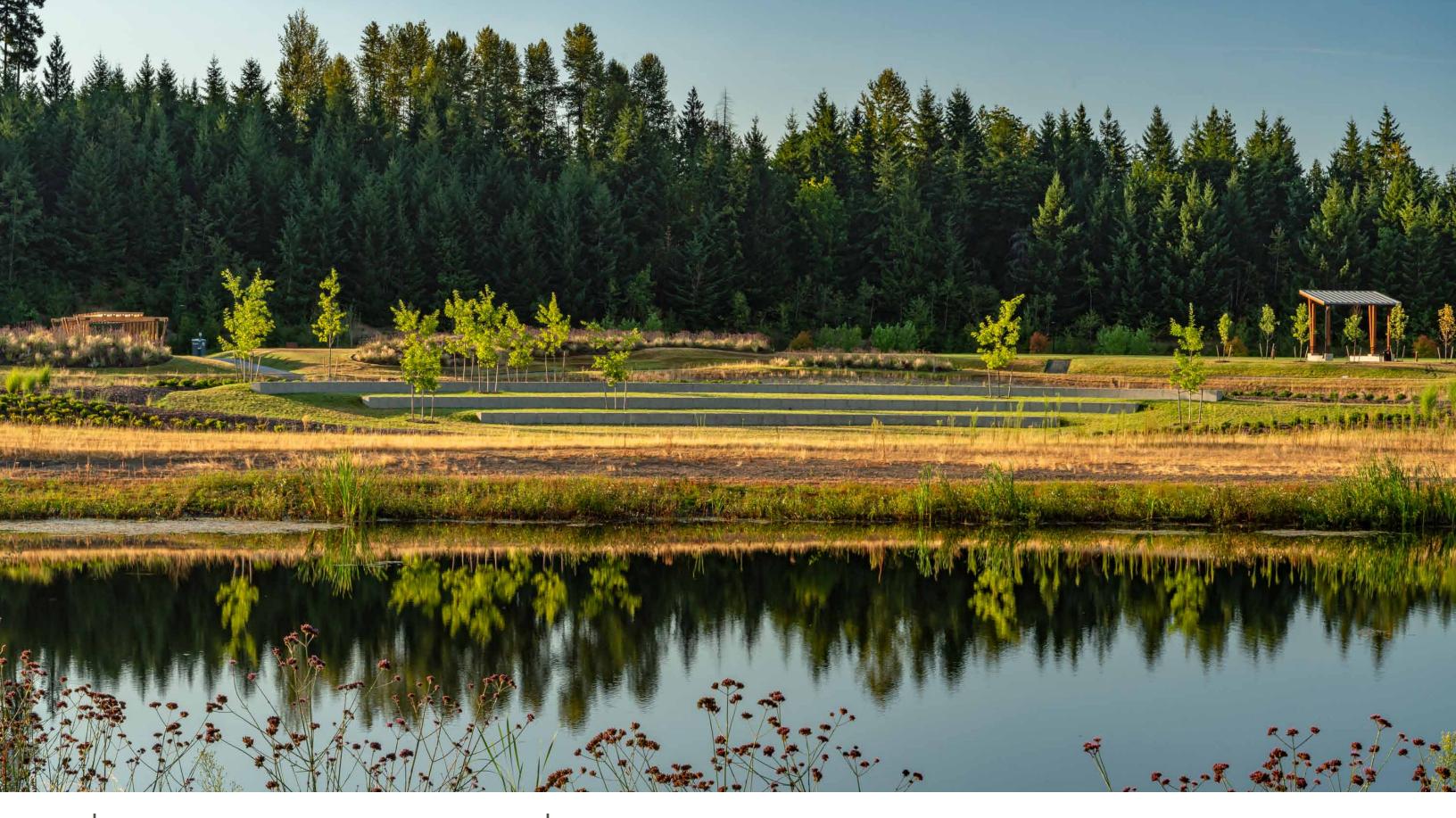
**STORMWATER MANAGEMENT - WET CELL STORAGE CAPACITY: 23 ACRE-FEET** 

**STORMWATER MANAGEMENT - DRY CELL OVERFLOW CAPACITY: 113 ACRE-FEET** 

**EXISTING PRIMARY COMMUNITY TRAIL** 

**NEW LOOP TRAIL** 

**POLLINATOR TRAIL** 



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### **STORMWATER MANAGEMENT - WET CELL**

The storm water pond stores over 23 acre-feet of water and serves as a settling basin for contributing runoff. It has also been populated with fish by passing waterfowl, beginning a new ecological cycle.



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#### **SNAGS ALONG THE TRAIL SYSTEM**

Snags cleared from other community lots were reused on-site to create habitat, and frame views. The snags serve various ecological functions; including hunting perches, nesting and roosting for small birds, and harboring insects and prey.



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#### **BOCCE COURT**

Custom seating with signage about the park's S.T.E.A.M. features overlooks the Bocce court. The court is situated adjacent to the primary walking loop and Pollinator Gateway, serving as a multi-generational recreational element and area for pause and reflection.

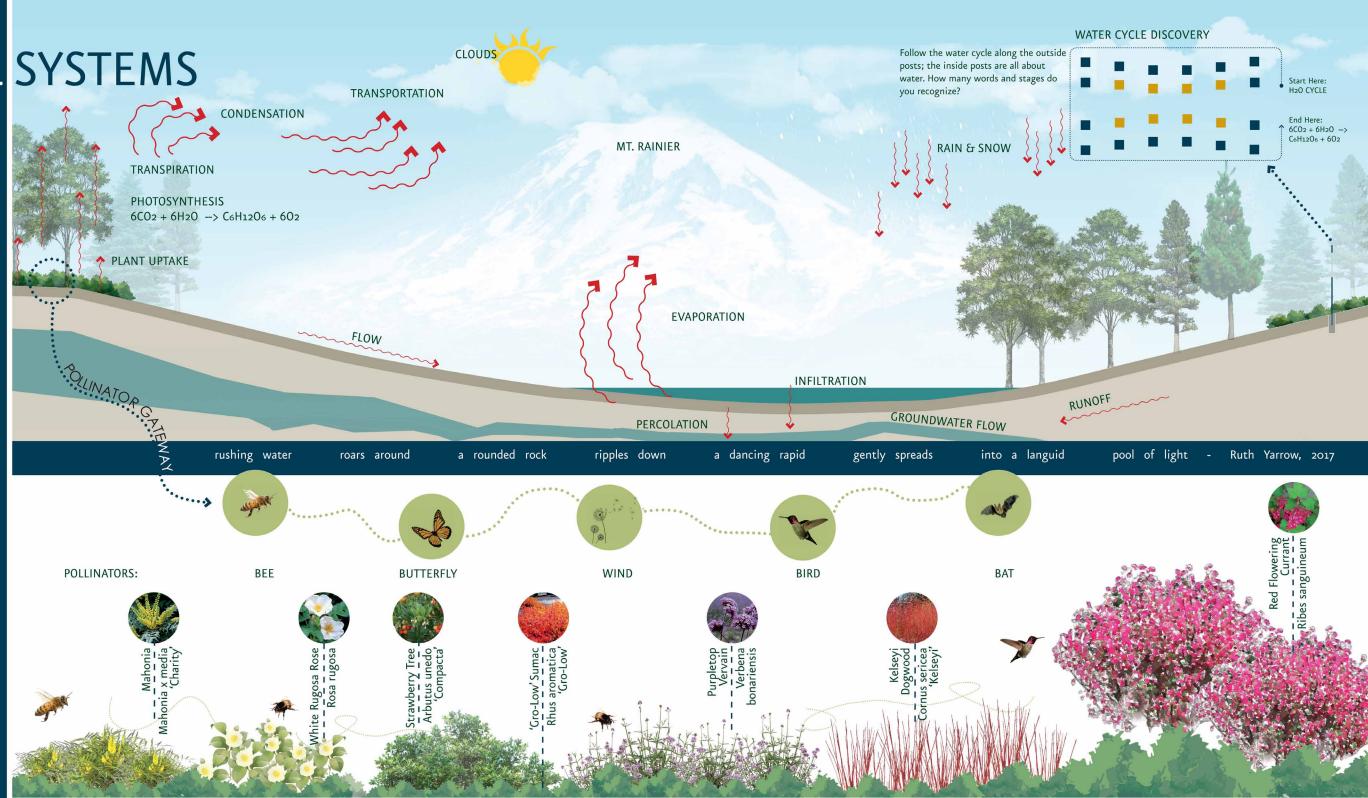
### ECOLOGICAL SYSTEMS

This park functions as a regional storm facility designed to accommodate runoff from a 100year storm event. To engineer and build this facility, the site was cleared and excavated to expose underlying porous gravel. The first cell, the wet cell, captures the silty runoff water and provides an area for settlement. This cleans the water which is then slowly discharged into the permeable gravel to recharge our below-ground aquifers. The park protects this important function as well as being an amenity for the community's use and enjoyment.

WATER GOING UP: Evaporation happens when the sun warms the surface of water and it turns the liquid into gas. This water rises into the atmosphere and we can see it as clouds. Transpiration is the evaporation of excess water from plants. As much as 10% of the Earth's atmosphere is created from transpiration of water by plants. Transportation is the movement of water via wind. You can see this when you watch clouds move across the sky.

WATER GOING DOWN: Precipitation happens when the atmosphere is 100% saturated. Water vapor loses heat and energy through motion and cools down; the main forms of this are rain, snow, sleet, ice and hail. Once that water hits the ground it can begin to percolate. Percolation is the movement of water through soil by gravity and capillary forces. Some of this water will hit non-porous rocks and settle in aquifers as groundwater.

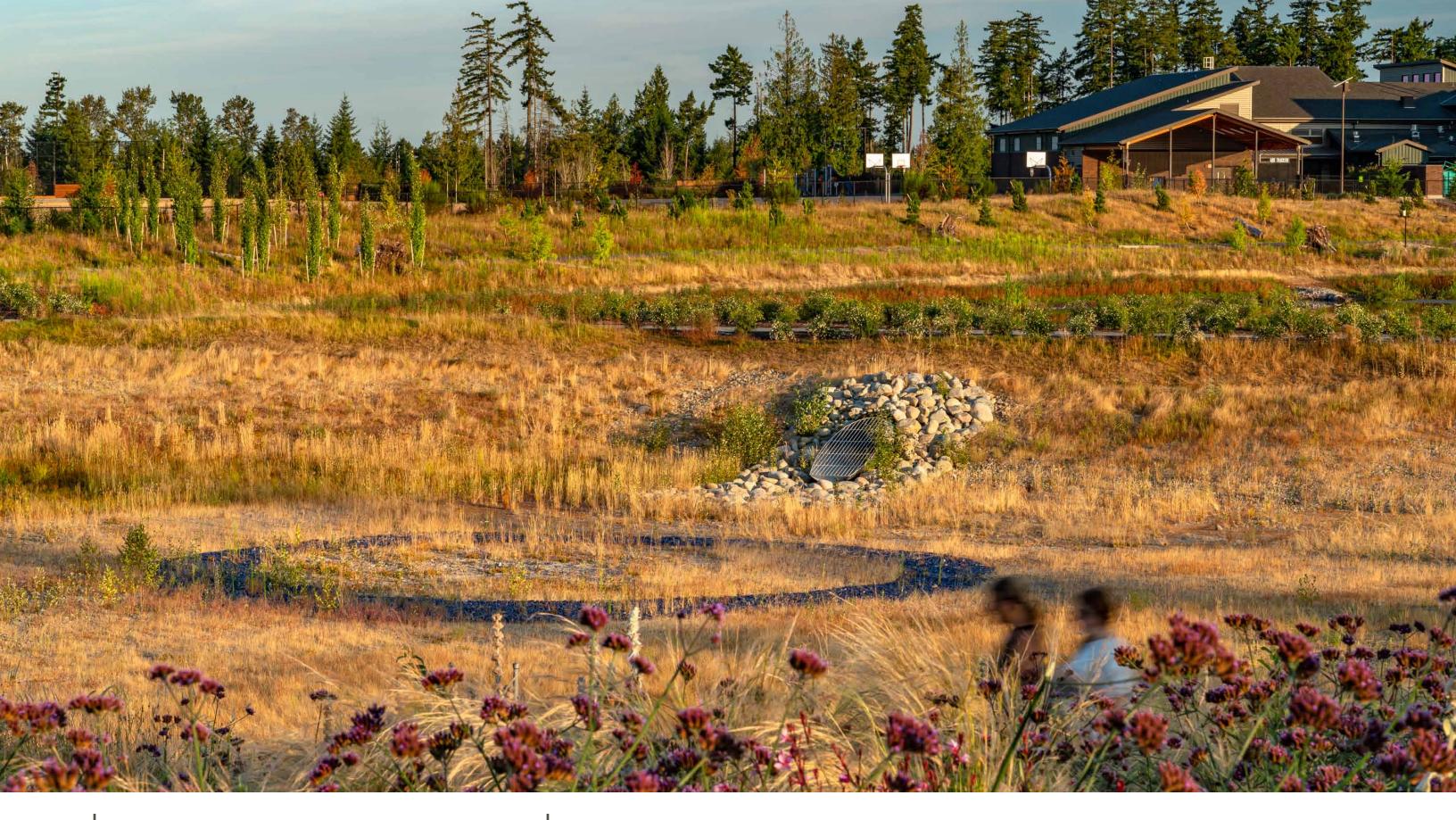
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### DISCOVERY PARK AT TEHALEH

#### **INTERPRETIVE SIGNAGE - ECOLOGY**

The Landscape Architect custom-designed signage; explaining the water cycle, how to interpret the Water Cycle Discovery interactive art installation, and the relationships between of pollinators and plants that may be seen on the site.



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#### **STORMWATER MANAGEMENT - DRY CELL**

The normally dry infiltration cells are capable of handling up to 113 acre-feet of overflow. Rings of blue cullet glass create a temporal element that will disperse through interaction with water and visitors.



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#### AMPHITHEATER

The amphitheater is nestled into the natural topography below the great lawn area and takes advantage of views to the pond. It also serves as an additional outdoor classroom for the adjacent Tehaleh Heights Elementary School.



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#### **COMMUNITY GATHERING AND GARDENING**

The communal dining tables can seat over fifty guests; they are situated together with custom barbecues and adjoin the community garden. The area encourages gathering and promotes a sense of community and ownership to residents.

### HABITAT

A habitat is a natural environment in which a wild creature lives. It includes plant life, landforms, water sources, climate, weather patterns, and other wildlife. A healthy, diverse habitat is essential for wildlife to thrive.

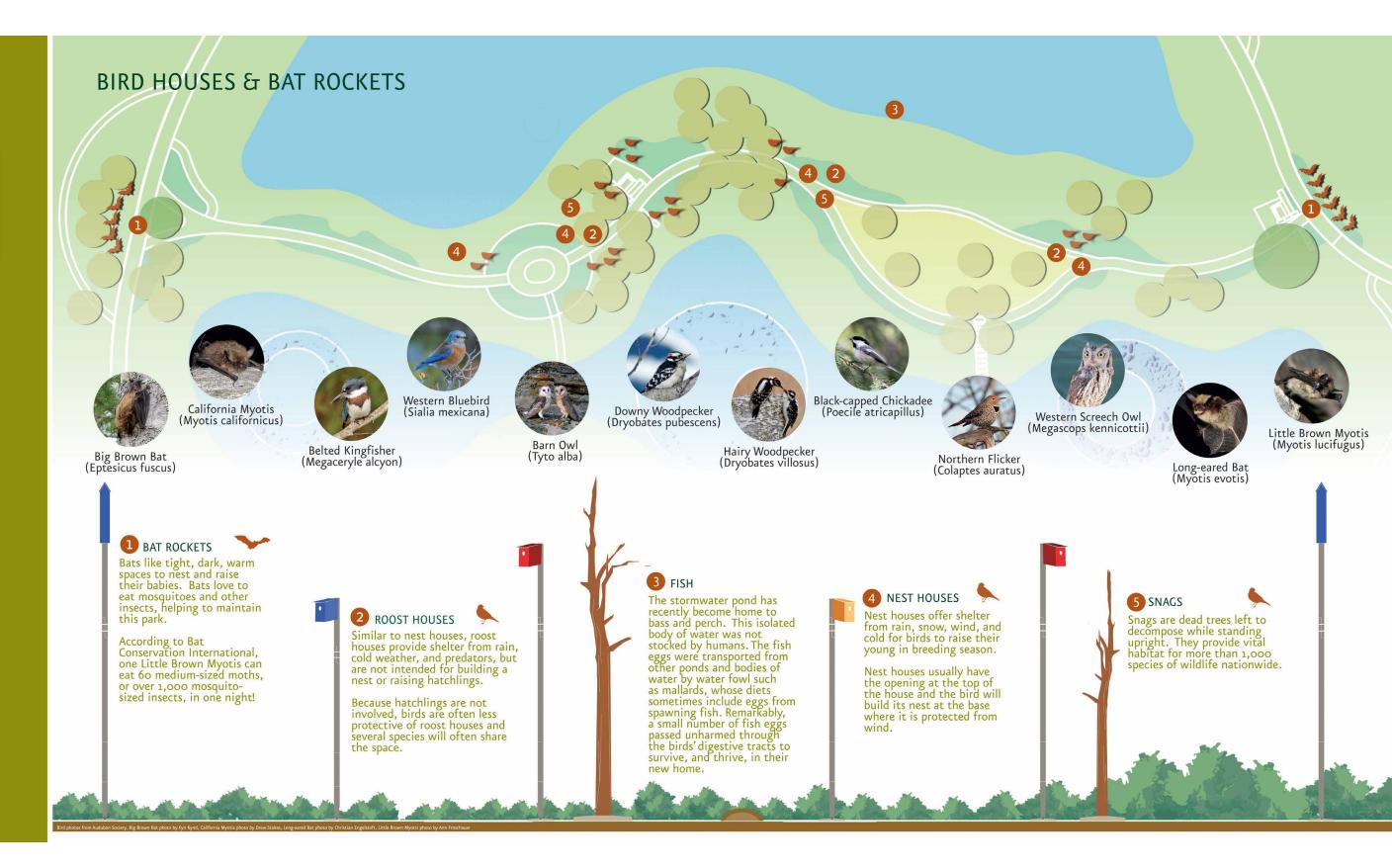
This park invites and nurtures wildlife as well as people.

Along this gravel trail there are a series of snags, bird houses and bat rockets that create safe places for wildlife to rest, roost, feed and live. Snags may look like dead trees to humans, but rotting wood harbors many insects and is a great building material for animal homes.

The plants have been chosen for their wildlife benefits: providing shelter, food, water, and nesting places; and materials for butterflies, birds, insects, bats, bees and other wildlife.

This landscape is designed to have all-season interest and support for permanent and temporary visitors. In spring we hope to see lots of babies, but also the arrival of migratory birds. In summer flowers will produce pollen and nectar for hummingbirds, bees and butterflies. In fall you can watch the leaf colors change and see migratory birds passing through as they head to warmer climates for winter. In winter cover is limited so wildlife is more visible and you can even see tracks in the snow.

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### DISCOVERY PARK AT TEHALEH

#### **INTERPRETIVE SIGNAGE - HABITAT**

The Landscape Architect custom-designed signage is located along the Pollinator Gateway. It showcases the native and transitional aerial visitors, and tells of some of the ways they are being accommodated and encouraged.



#### **POLLINATOR GATEWAY**

The Pollinator Trail passes through the center of the park, blending native and drought tolerant plantings. Along the trail, a series of snags, logs, root wads, and avian houses are organized to create a wild but orderly landscape.



### HABITAT ALONG THE POLLINATOR TRAIL

Extensive review was made of native and adapted birds to the area; their various needs were taken into account during the placement of habitat elements such as nesting boxes, roosting boxes, snags, and bat rockets.

### S.T.E.A.M.

The S.T.E.A.M. approach to learning is a nonprescriptive and contextual approach wherein academic concepts are combined with environmental engagement. Various park elements represent S.T.E.A.M. learning opportunities; they are designed to be fun, generate critical and imaginative thinking, and improve understanding of science, technology, engineering, art and math, while being outdoors. Think of these park elements as a starting place for your path toward discovery.

SCIENCE: Pollinator Trail, Tree Snags, Bird Houses, Bat Rockets, Native Animal Tracks, Native Plants and an Outdoor Classroom

TECHNOLOGY: Stormwater Infiltration Cells, Community Garden

ENGINEERING: Trellis Structure, Stormwater Infiltration Cells, Outdoor Classroom, Bioretention Cells, Amphitheater

ART: Poetry Rock, Water Cycle Discovery, Temporal Cell Markers, Native Plant Prints, Native Animal Tracks, Loop Markers, Five Trees Planters

MATHEMATICS: Walking Loop Markers, Bocce Ball, Trellis Structure, Amphitheater

#### **5 TREES**

The "5 Trees" symbolize the "Gohon no ki" landscaping concept of selecting tree species best suited for the local environment under the principle of "three trees for birds and two for butterflies."

The Japanese concept of "5 Trees" is	
translated as follows:	

1 tree for shade	Amenity
1 tree for aesthetics	Beauty
1 tree for animals	Ecology
1 tree for future generations	Youth
1 tree for people	Community



**MATHEMATICS** 

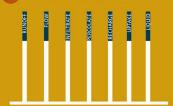
ART

ENGINEERING

TECHNOLOGY

ш

SCIENC

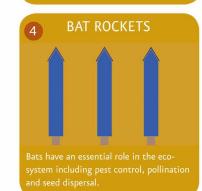


illow the water cycle along the outside ords; the inside words are all about ater. How many do you know?





eighbors gather below the trellis to BBQ nd enjoy outdoor dining which includes roduce that is grown on site.



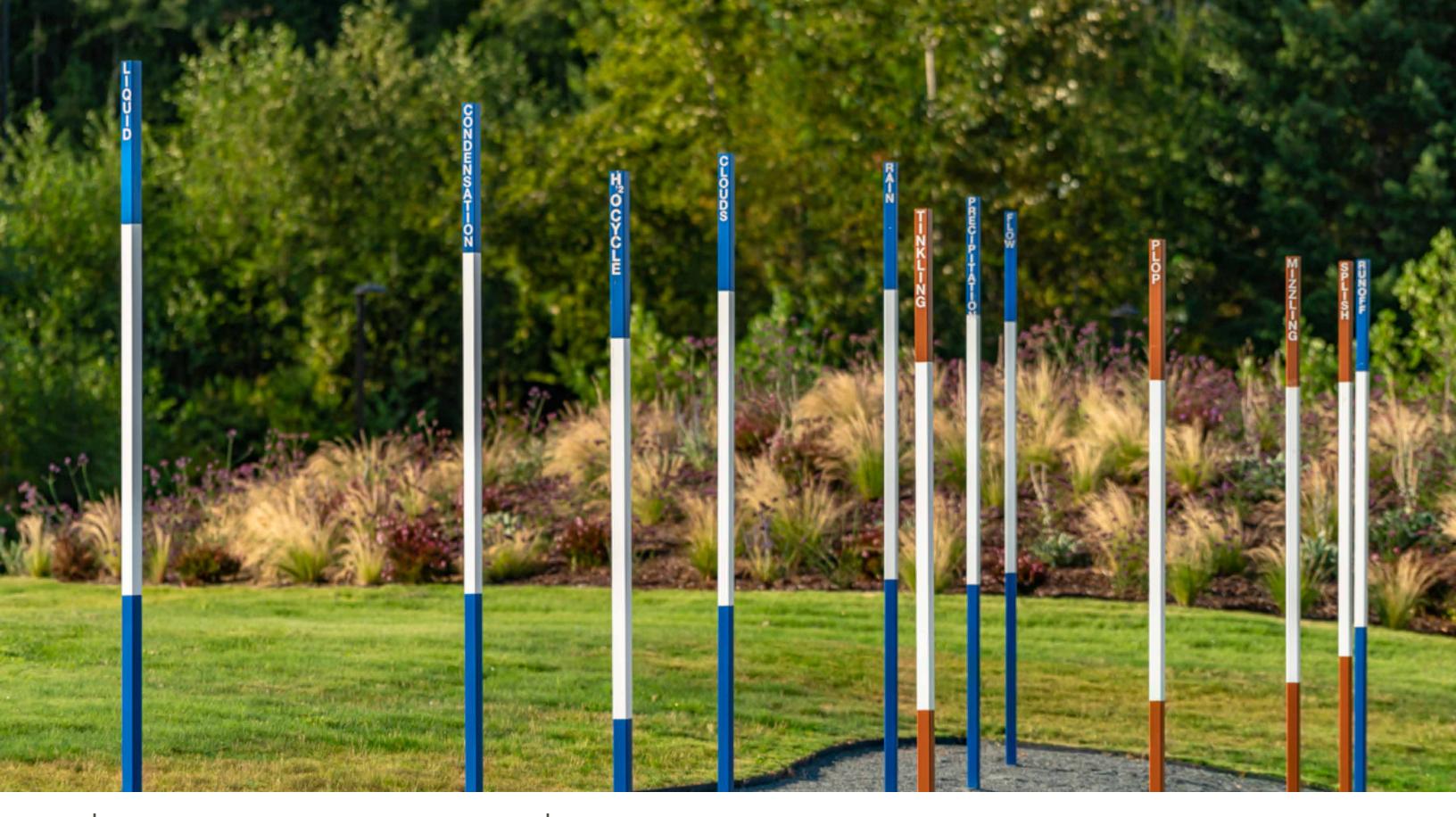


#### **INTERPRETIVE SIGNAGE - S.T.E.A.M.**

The Landscape Architect custom-designed signage demonstrating several of the S.T.E.A.M. features of the park and their locations.

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### DISCOVERY PARK AT TEHALEH



### WATER CYCLE DISCOVERY

An interactive S.T.E.A.M. element custom designed for the site. The orange posts are labeled with fun and inspiring water related words while the blue posts follow along the water cycle, creating an opportunity for fun learning.

# down • a dancing rapid • gently spreads .

L C A T A L Y S T A S T H G I L N U S S L A AW REDI M E I E L U C E L O MQ E NOCILI SOJAO HYDI E L M U S E U M Q O I W I N D T U N N E L HOCJREI R T G G K S C U L P T U R EMSY D S U WY Q C FREI U E R N Y G O L O N H C E T K D L G P F Q P L L P R O T E D J K Z H T W F S A C L G T Q C I L C U M B E R

## 14DISCOVERY PARK<br/>AT TEHALEH

### HAIKU AND WORD SEARCH ROCK

A large excavated boulder was centrally re-sited and given new life as an interactive element. A poem written by a local haiku master is inscribed on the rock along with an ecology word search game.





#### **CENTER OF THE COMMUNITY**

The community table and trellis sit adjacent to the community gardens. Designed with future Community Center expansion in mind, it is managed by the HOA and the garden patches remain booked to capacity since inception.