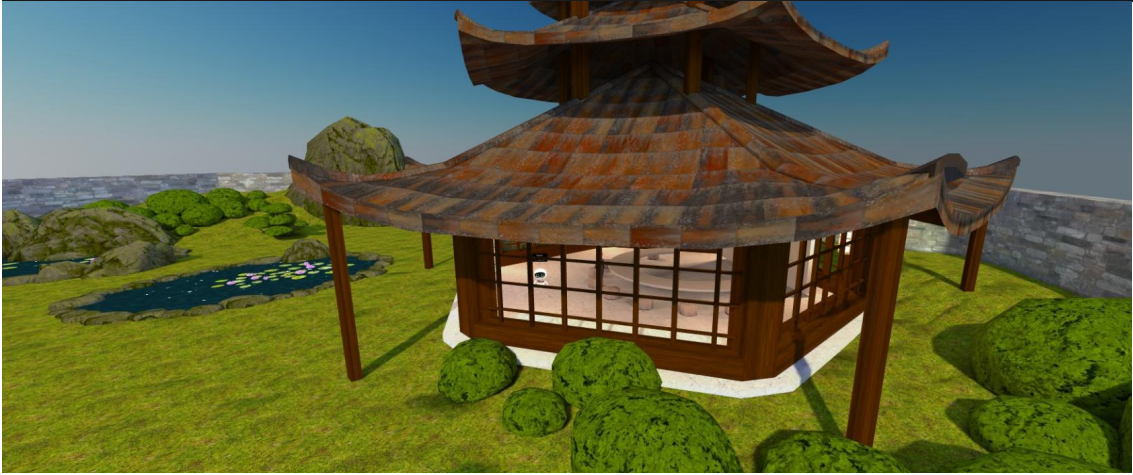
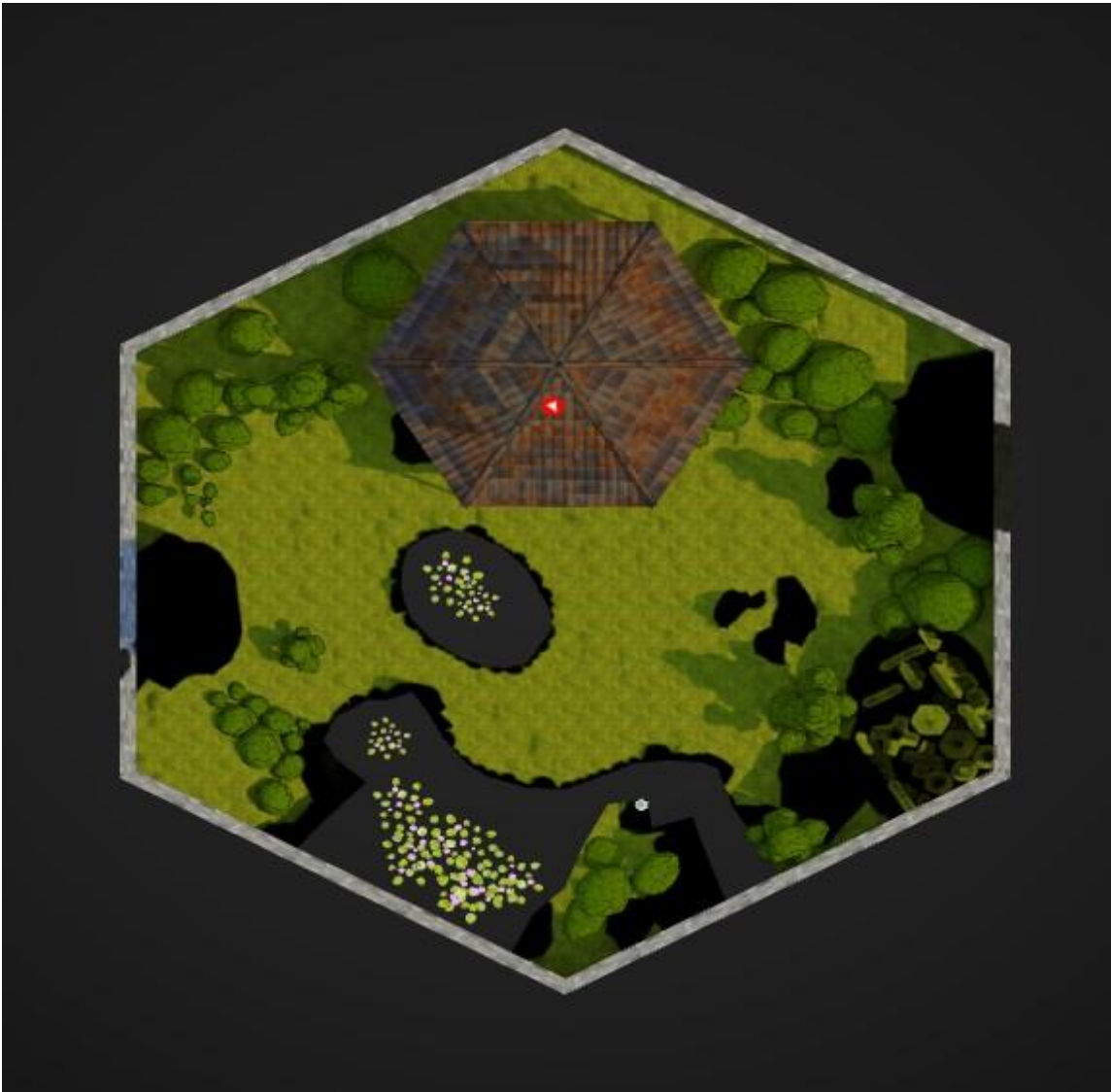


(8) Branch/House/Track #8: Nature & Environmental Sciences



The current House 8 frame includes a one-room Japanese-style location with a manicured garden for events (shown above). As of January 29, 2026, it has not been decorated or assigned to host regular activities.

BH-08 Nature & Environmental Sciences

Frame Type	Branch House	Status	OPEN
------------	--------------	--------	------

Track / Branch	Natural & Environmental Sciences	Capacity	50 users
FrameVR URL	https://framevr.io/house8-nature		
Notes	Book Club Activities		

Frame Purpose

The disciplinary home for immersive learning in ecology, environmental science, and nature-based education. XR offers unique affordances for environmental education — transporting learners to ecosystems they cannot visit, visualising climate data, and building environmental empathy. This Frame also hosts ongoing Book Club activities.

Frame type context: Branch House — persistent disciplinary anchor with active Book Club programming. Book Club activities should be scheduled and posted on the events board, with connection to the Thirsty Scholar social space.

1 Ownership & Governance

Frame Lead / Owner	
Content Contributors	
Technical Steward	
Accessibility Reviewer	
Last Updated	

2 Learning Design Requirements — + UDL 3.0

: Context-rich learning is central to environmental education. emphasis on providing real-world context maps directly: the Frame should ground content in real ecosystems and place-based learning experiences, not abstract descriptions.

UDL: Nature and environmental contexts are naturally multi-sensory — XR can represent them through visual, audio, and spatial modalities. This Frame should model Representation richness: not just images of nature, but immersive or spatial representations where possible.

	Universal Requirements (all frames)	Criterion / Pass Threshold
--	-------------------------------------	----------------------------

☐	Purpose statement posted in Frame at entry zone	<i>Visible within 10 sec of entering</i>
☐	Orientation cues for newcomers (what this space is, what to do)	<i>Confirmed by blind test with volunteer</i>
☐	Asynchronous contribution pathway available (forum, Codex, Discord link)	<i>At least 1 async pathway; URL live</i>
☐	Content accessible in text form via Codex (Representation — UDL)	<i>Codex page live and linked in Frame</i>
☐	No colour-only navigation cues — all zones/portals have text labels	<i>Confirmed by reviewer</i>
☐	Emotional tone is welcoming; language is jargon-free at entry	<i>Confirmed by reviewer external to Frame team</i>
Frame-Specific Requirements		Criterion / Pass Threshold
☐	Book Club schedule posted on events board (upcoming sessions, recurring cadence)	<i>Dates confirmed with Book Club organiser</i>
☐	Link to Thirsty Scholar social space present (Book Club community)	<i>Portal or board link confirmed live</i>

3 Design & Build Checklist

	Layout & Purpose	Criterion / Pass Threshold
☐	Frame purpose defined in one sentence, posted at entry	<i>Written purpose statement visible</i>
☐	Environment size matches use case	<i>Appropriate environment selected; not over/undersized</i>
☐	Central meeting / focal area identifiable within 10–15 sec	<i>Walk-through test by reviewer</i>
	Navigation	Criterion / Pass Threshold
☐	Minimum 2 outgoing portal links to other Frames	<i>≥ 2 portals; 0 dead ends</i>
☐	Consistent portal visual language (campus-wide asset style)	<i>Matches campus portal standard</i>
☐	Navigation path from entry to any key area ≤ 15 seconds	<i>Timed walk-through by reviewer</i>
☐	All portal destinations confirmed live	<i>Click-tested by reviewer</i>
	Signage	Criterion / Pass Threshold

☐	All text legible on mobile screen at default eye level without zooming	Phone screen test
☐	No signage relies on colour alone	Label or icon accompanies all colour-coded elements
	Zone Setup (if zones are used)	Criterion / Pass Threshold
☐	'Restrict all assets to zones' enabled if zones are in use	Frame settings → restrict assets = ON
☐	Each zone has a named purpose	Zone names visible in Frame settings

4 Performance & Asset Budget — check via Frame Settings → Performance Rating or `?debug=true`

FrameVR targets: ≤ 200 draw calls · $\leq 130,000$ active faces · ≤ 20 materials. FPS target: 60 desktop, ≥ 40 minimum desktop, ≥ 30 iOS Safari.

	Performance Monitor Readings	Criterion / Pass Threshold
☐	FPS ≥ 40 on desktop (Chrome/Edge)	Target 60; below 40 = must fix
☐	FPS ≥ 30 on iOS Safari mobile	Must pass before launch
☐	Draw call count ≤ 200	Babylon Inspector → Stats
☐	Active face/poly count $\leq 130,000$	Babylon Inspector → Stats
☐	Material count ≤ 20	Babylon Inspector → Stats
☐	Performance Rating not flagged RED in Frame Settings	Yellow = caution; Red = block launch
	Asset Hygiene	Criterion / Pass Threshold
☐	All images compressed before import (squoosh.app)	No raw camera/screen captures
☐	No Sketchfab model imported without poly-count review	Flagged models resolved or documented
☐	Unused assets deleted (not just hidden)	Assets list contains only active assets ⚠️ Check with the owner of the asset before deletion!!
	Media Settings	Criterion / Pass Threshold
☐	All videos set to NOT autoplay	Each video asset → autoplay = OFF
☐	Webcam/streaming screens disabled unless live event	Default OFF; enable only during live sessions
☐	No Smoke particle effects in use	High GPU cost; zero tolerance
☐	Animated objects minimised	Each loop adds ongoing GPU cost

FPS Desktop	
FPS iOS Safari	
Draw Calls	
Poly Count	
Materials	
Perf. Rating	

5 Content & Boards Checklist

	Codex & Community Links	Criterion / Pass Threshold
☐	Codex page URL embedded as board or link in Frame	<i>BookStack page URL live and linked</i>
☐	Forum / InVision Community thread linked	<i>Thread URL confirmed live</i>
	Content Boards	Criterion / Pass Threshold
☐	Image board(s) populated with track-relevant content	<i>At least 1 board with real content, not placeholder</i>
☐	Upcoming events board posted and dated	<i>Event title + date visible; past events removed</i>
☐	Showcase zone set up for presenter / author work	<i>Distinct area labelled Showcase or equivalent</i>
☐	Presenter / author content loaded or linked	<i>Confirmed with content owner</i>
	Conference-Specific Elements	Criterion / Pass Threshold
☐	Greek cultural / scavenger hunt artifact placed (if assigned)	<i>Confirm with George / Greek team</i>
☐	Quest clue placed correctly (if this Frame is a quest stop)	<i>Cross-check against quest master list</i>
☐	Tally.so submission form linked (if track accepts submissions)	<i>Tally form URL confirmed and tested</i>

6 Planned Activities & Events

Activity / Event	Date	Owner	Status

7 Connected Frames & Portals

Destination Frame	Portal Type	Notes
iLRN Central (HUB-03)	Return portal	Primary inbound route
Climate / Sustainability (SP-02)	Branch-to-Special	Environmental science overlap
STEM (BH-05)	Branch-to-Branch	Science education
The Thirsty Scholar (CS-08)	Branch-to-Social	Book Club connection

8 Asset Inventory

Asset Name / Description	Poly Count	File Size	Owner

9 Accessibility Sign-Off — *reviewer must complete this, not the Frame owner*

	Wayfinding & Legibility	Criterion / Pass Threshold
☐	New user orients within 10 seconds without prior knowledge	<i>Blind test with volunteer</i>
☐	All text boards legible on mobile at default eye level	<i>Phone screen test</i>
☐	No element identified by colour or spatial position alone	<i>Confirmed with audio OFF</i>
	Inclusivity	Criterion / Pass Threshold
☐	No flashing or strobing effects	<i>Zero tolerance — photosensitivity risk</i>
☐	Critical content accessible from a stationary avatar position	<i>No movement required to read key boards</i>
☐	Language on all boards is plain and welcoming to newcomers	<i>Reviewed by someone outside Frame team</i>

	Device & Bandwidth	Criterion / Pass Threshold
☐	Fully usable on Chrome / Edge desktop	Full navigation completed without crash
☐	Usable on iOS Safari mobile	Full navigation completed without crash or major lag
☐	Loads within 30 sec on Slow 3G (Chrome DevTools → Network → Slow 3G)	Slow 3G test completed and passed
	Sign-Off	Criterion / Pass Threshold
☐	Reviewer name and date recorded below	Required before Frame status = Ready

Reviewed By	
Review Date	
Outcome	
Follow-Up Items	

10 Codex Integration (BookStack)

Codex Book / Chapter	
Codex Page URL	
Last Synced	
Outstanding Codex Tasks	

11 Additional Notes & Open Questions