



# Backpack Adventure: Find the Animals

## Learning Objectives & Assessment Summary

### Overview

Backpack Adventure: Find the Animals is a Roblox experience designed for children ages 7–12 that builds foundational nature literacy through structured, discovery-based play.

Players explore a unified biome containing multiple habitats, identify animals, document discoveries in an in-game Explorer Book, and progress through a tiered rank system. Learning is embedded directly within the core gameplay loop.

### Intended Learning Objectives

Through repeated exploration and progression, players are intended to:

- Identify animals within specific habitats
- Understand how animals relate to their environments
- Build familiarity with biodiversity concepts
- Develop observation and persistence skills
- Strengthen curiosity-driven inquiry habits

The experience emphasizes discovery over memorization and persistence over speed.

### Learning Design & Progression Structure

Backpack Adventure integrates learning through structured systems:

- **Habitat-Based Completion:** Players earn backpack patches by completing animal discovery within each habitat.
- **Explorer Book Documentation:** Animal discoveries are persistently recorded.
- **Rank Advancement:** 21 rank levels within 10 progression tiers.
- **Night Mode Extension:** An alternate gameplay mode that introduces nocturnal exploration and teaches about real-world animal eye glow (*tapetum lucidum*) through accurate visual cues.

Progression requires repeated animal identification and habitat exploration. There are no fail states or time-based pressures.



## Evidence of Learning Engagement

### Scale

- 2.5+ million visits
- 93% positive player rating

### Structured Rank Progression

- 1,104,000+ Rank 3 badges earned
- 623,000+ Rank 12 badges earned
- 324,000+ Rank 18 badges earned
- 111,000+ Rank 21 badges earned

### Completion Milestones

- 87,000+ Level 1 badges earned (Requires finding and learning about all animals)
- 202,000+ Night Mode badges earned (Indicates opt-in engagement with nocturnal exploration)

Upper-tier badge attainment demonstrates sustained engagement beyond initial exposure, indicating structured progression and repeated exploration behavior.

Engagement is voluntary and player-driven within the Roblox ecosystem, reflecting intrinsic motivation rather than externally assigned participation. Advancement through higher rank tiers demonstrates self-directed persistence within the learning system.

## Theory of Change

Backpack Adventure operates on the premise that environmental literacy increases when learning is embedded within platforms children already use and when progress is tied to discovery rather than performance pressure.

By rewarding observation, habitat completion, rank advancement, and replay across modes, the experience reinforces environmental awareness through repeat engagement within a mainstream gaming ecosystem.