



FLIGHT SCHOOL

Educational App

Flightschool.tech

Problem



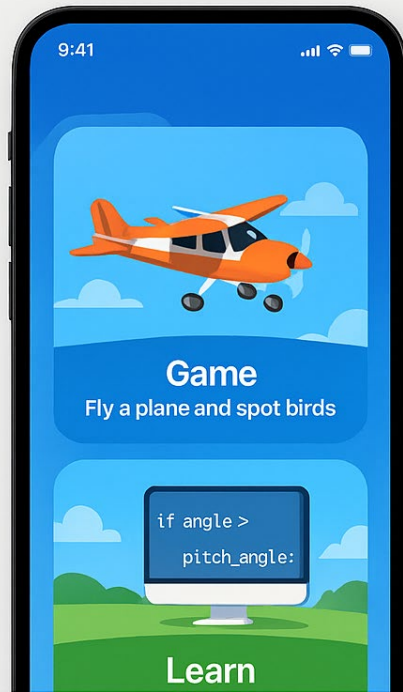
Kids love planes and games.



Parents want them to learn.



But STEM learning tools are either boring, disconnected from real-world excitement, or not built to sustain engagement.

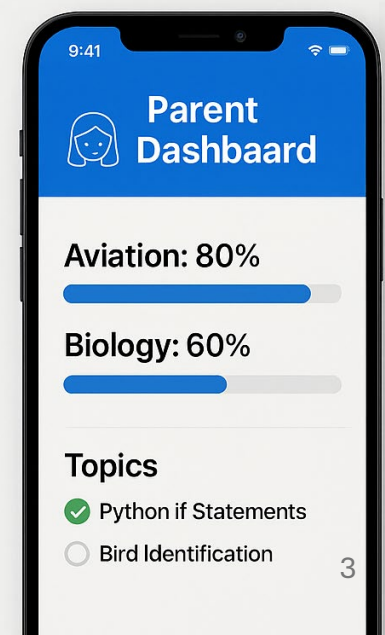
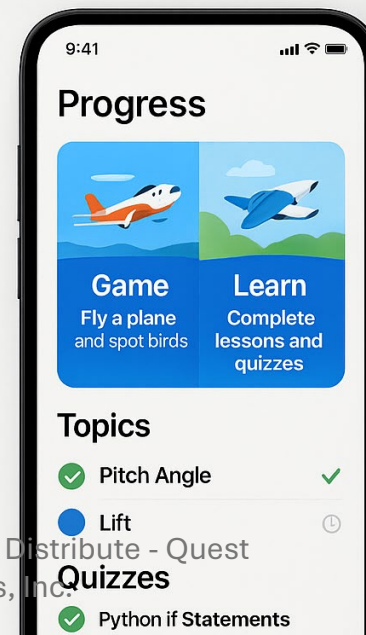


Solution




🎮 *Flight School* — a mobile learning game that teaches physics, chemistry, biology, engineering, math confidence, and communication by letting kids fly planes, solve engineering challenges, and build bird habitats.



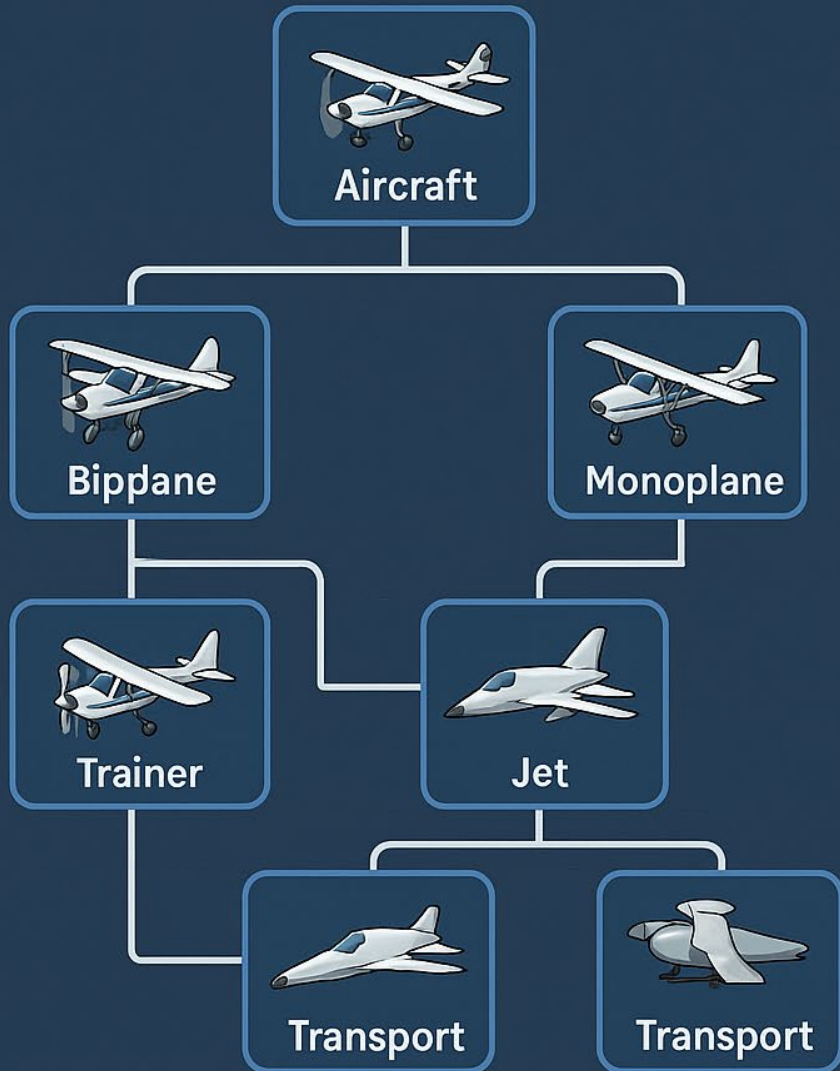
Progress is measurable, tied to real standards, and reported to parents.



Why Now

-  97% of U.S. teens have a smartphone
-  Parents are spending **\$1,000+/yr** on supplemental education
-  EdTech investment is shifting to **gamified, measurable, subscription-based tools**

PLANE RESEARCH



BIRD RESEARCH



Product

- **Mobile App** (\$5/month subscription)
- Curriculum: Physics, Coding, Biology
- Unity-powered game engine
- Personal AI tutor + Parent dashboard
- Safe, AI-moderated social environment
- Kids *earn in-game perks* by mastering STEM content.
- Parents *see clear academic ROI*.

AIRPARK R&D

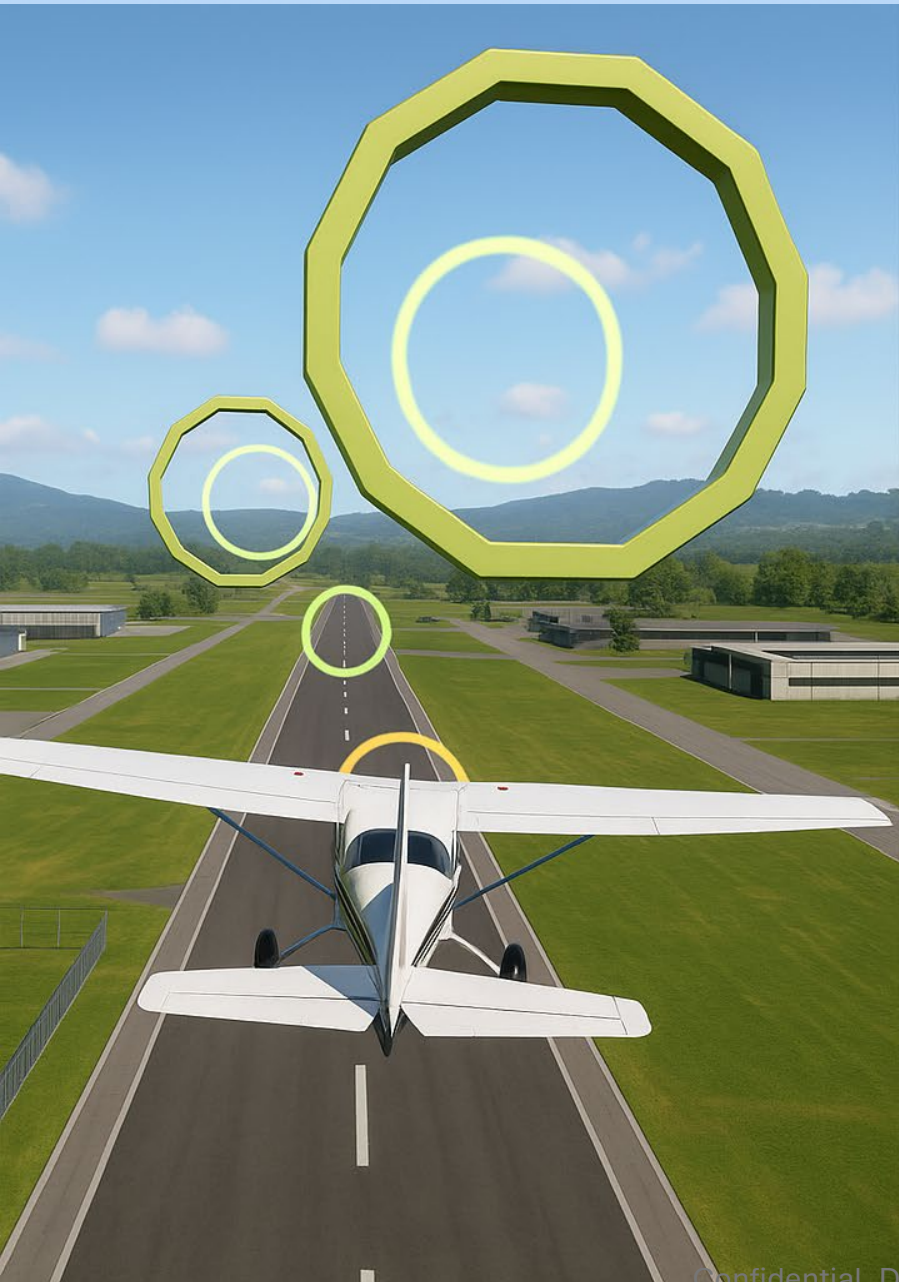


RESEARCH ZOO



Business Model

- **\$5/month per user**
- **Direct-to-parent via App Store**
- **District licensing (phase 2)**



5/29/2025



Market Opportunity

\$10B+ global EdTech consumer market

- **50M+** U.S. K–12 students
- **20M+** tween gamers in the U.S.
- **70%** of parents report paying for supplemental learning apps

RESEARCH PROJECT



BIRDPLANE X-1

RESEARCH

BIRDS & HABITATS



Traction

- ✓ Design challenge drew real engagement: a 13-year-old submitted working flight design
- ✓ Full standards-aligned STEM curriculum in development
- ✓ Game prototype in Unity underway
- ✓ UX mockups completed
- ✓ Advisory team includes GPT-40/o3, educators, pilots, and developers

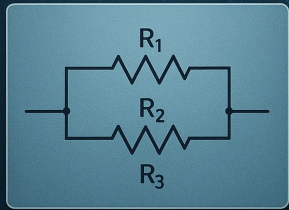
Low Barrier MVP

Flight School Digital Collectible Card Game (DCCG).

Target: 4th–5th Grade (expandable), aligned with NGSS + CCSS

CHALLENGE

TUNE THE CIRCUIT

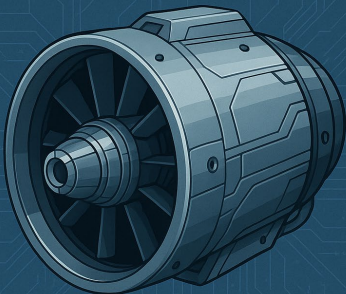


Add fractions to tune a parallel resistance circuit for a testflight or risk failure.

ENGINEERING



ELECTRIC POWER



ELECTRIC POWER

Provides thrust with an electric motor and fan.

PROPULSION

ENGINEERING

ENERGY

DEFENSIBLE NEST



FAMILY

A falcon nest with shelter, protection, and room for a growing Nest.

PAIR BOND

POWER



Two on one in thigh for survival, a family. Not an individual.

Confidential, Do Not Distribute - Quest

COOPERATION

PERFORMANCE

FAMILY

Go-to-Market

- DCCG via App Stores Yr 1
- Influencer & STEM YouTube promo
- Launch Full System Prototype Yr 2; Direct-to-Parent
- Partner with homeschool education orgs
- Transition into formal classroom pilots Yr 5

The Ask



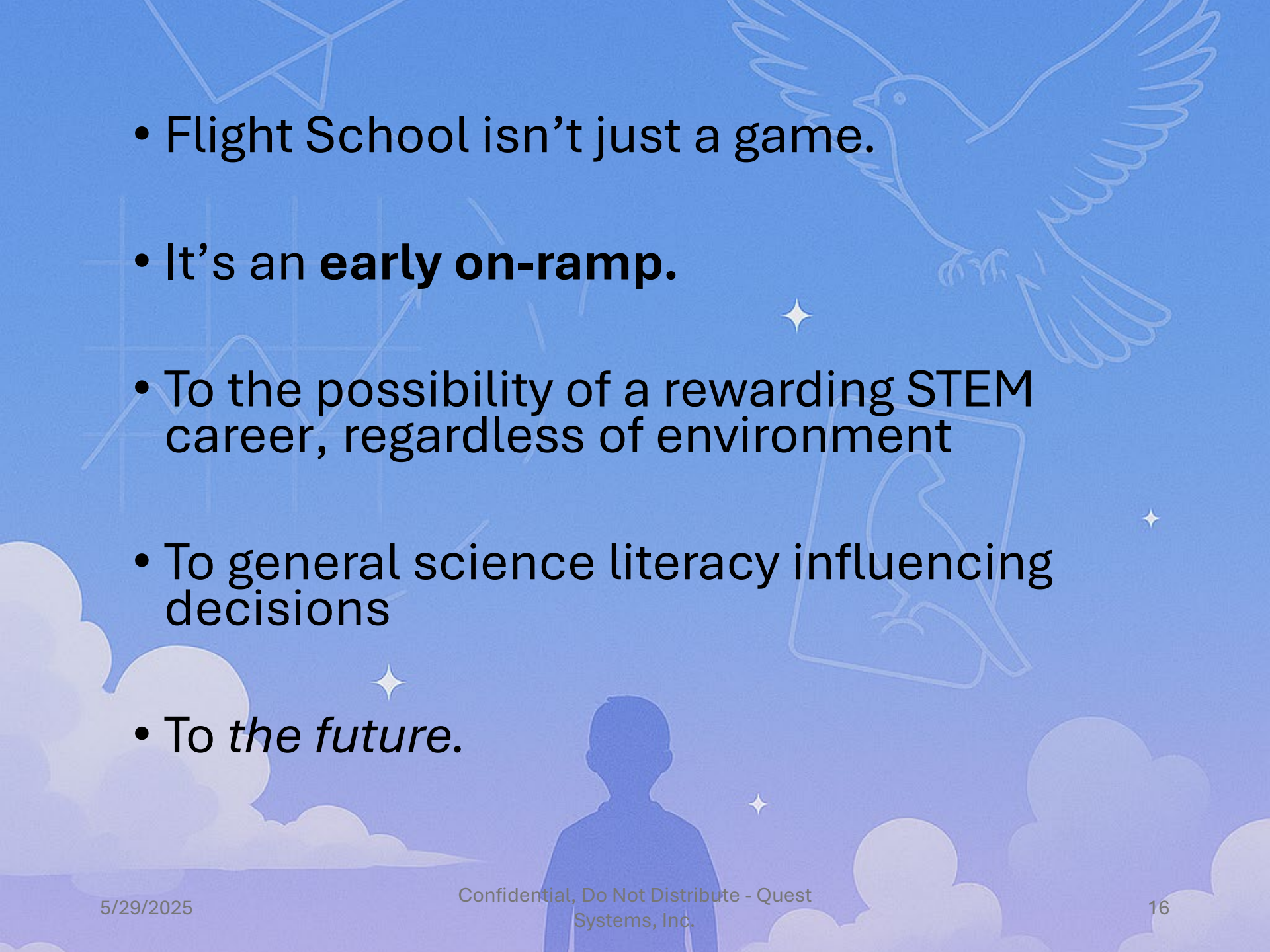
\$50,000 seed round

- Indiegogo launch-to-MVP DCCCG trading card app completion

- Curriculum authoring ✨

- Paid crowdfund marketing

Goal: Reach 10,000 paying users within 12 months ✨

- 
- Flight School isn't just a game.
 - It's an **early on-ramp.**
 - To the possibility of a rewarding STEM career, regardless of environment
 - To general science literacy influencing decisions
 - To *the future.*



THANK YOU!

Parent Features


- Dashboard shows:
 - Topics completed
 - Strengths & weaknesses
 - Weekly email reports
 - Achievement alerts
- Controls:
 - ChatGPT-like tutor locked inside app
 - No free chat unless parent-approved
 - AI-moderated interactions

Kid Features

- Personal chatbot tutor
 - Leads, doesn't give answers
 - Tracks knowledge gaps
 - Rewards difficulty attempts
- Safe social zones:
 - Flight challenges
 - Bird-spotting competitions
 - Age-gated mini games

Full STEM Ed System MVP Modules (Sample)

Feature	Level 1 Version	Future Version
Learning Modules	"Pitch Angle" & "Bird Classification"	Full STEM curriculum
Flight Game	Simple 3D flying, bird habitat	Full airpark simulation
Points System	Basic points → Skins/Upgrades	Full reward economy
Parent Dashboard	Weekly summary emails	Real-time progress dashboard
Chatbot Tutor	Static hints	Adaptive, AI personalized
Safe Social	No chat	Limited safe chat + contests



DCCG Details: Creative Actionable, Agent+Human



GAME MODELS INFLUENCE:

- **Hearthstone / Magic: The Gathering** (Card economy + deck strategy)
- **Slay the Spire** (Progression + reward loop)
- **Pokémon TCG** (Creature affinity + energy/resource mechanic)
- **Prodigy / Legends of Learning** (STEM quiz integration)
- **Spore / Tyto Online** (Ecosystem building + bioinspired research)

- **Choose a Path:** Falcon 🦅 (Birdplane R&D) or Dolphin 🐬 (Bioinspired Cyberdolphin Robot Lifeguard R&D)
 - **Build a Team Deck:**
 - Engineer, AI Scientist, Biologist, Ecologist, Financial Analyst
 - Infrastructure cards (Aviary, Lab, Kelp Farm, Solar Panels)
 - Innovation cards (Winglets, Echolocation HUD)
 - **Solve STEM Puzzles:**
 - Math (fractions, ratios, area, energy use)
 - Science (lift, propulsion, neural networks, ecosystems)
 - Engineering mini-games (drag optimization, fluke design)
 - **Earn Cards + XP:**
 - Unlock powerful research cards
 - Get upgrades (future tech, "tech spells", art of influence)
 - **Compete & Collaborate:**
 - Local competitions: Aerobic points, Sustainable Innovation Score
 - Trade cards, challenge friends
 - **Evolve Path:**
 - Advance from MVP to full-featured product
 - Balance innovation vs sustainability score
- ## Game Loop (MVP)

Category



Researcher



Engineer



Bio Card



Infrastructure



Tech Power



STEM Challenge



Culture Card

Sample Card

AI Scientist

Mechanical Engineer
(Wing Design)

Peregrine Falcon

Solar Lab

Futurist Vision

Angle of Attack
Puzzle

Spirit Animal: Raven
(Native Wisdom)

Function

Boost control logic
efficiency

Reduce energy cost
of flight

Boost max dive
speed (airshow skill)

Generates
Energy/Turn

Boost fundraising &
public trust

Solve to unlock rare
research

Extra insight bonus
in planning



Energy/Economy System

- **Energy** = How many cards/actions you can play per turn
- **Sustainability** = Your long-term innovation value
- **Carbon Footprint** = Penalizes wasteful tech/overbuilding
- **Inspiration Meter** = Builds over time from cultural + nature cards (unlocks spirit guides, wisdom bonuses, narrative progress)



Quiz/Puzzle Integration

- Each card pack unlock requires solving: ✨
 - **Math puzzle** (e.g., add resistances in parallel to build sensor system)
 - **Science logic** (e.g., match the control surface to its bird analog) ✨
 - **Reading comp** (story-based puzzle tied to bio/ecosystem cards) ✨



MVP Focus Zones



Falcon Track: Birdplane R&D

- Flight mechanics
- Wing/feather innovation ✨
- Aerodynamics
- Sensor fusion & AI
- Airshow & energy score competition



Dolphin Track: Aquatic Cyberbiology

- Aquatic locomotion
- Bioelectric sensing ✨
- Kelp farm & sonar dome infrastructure
- Ecosystem management
- Water quality and energy optimization



Expansion Paths



Reptiles → heat regulation / terrain mobility



Insects → swarm AI / lightweight structures



Mammals → neural models, energy efficiency



Fish → propulsion and fin design



Culture tracks → explore myths, art, wisdom across cultures



Academic Integration

- Align each track with NGSS/CCSS standard clusters
- Scaffold puzzles to grade band (4th–5th, expandable to 6–8)
- Enable teachers to assign "puzzle sets" as classroom tools