







CodeFly - The Complete Gamified AI-Powered Coding Education Platform

Transform Your School Into a Coding Powerhouse

CodeFly isn't just another coding curriculum—it's a complete educational ecosystem that turns learning to code into an epic adventure. Built by DropFly AI, CodeFly combines cutting-edge gamification, AI tutoring, and comprehensive teacher support to deliver Florida CPALMS-aligned computer science education that students actually love.

The CodeFly Difference

-  **Full Gamification System** - XP, badges, leaderboards, and team competitions
 -  **Coach Nova AI Tutor** - Intelligent, controlled, and teacher-supervised assistance
 -  **Complete Teacher Console** - Everything needed to run class from Day 1
 -  **Standards-Aligned** - Full CPALMS coverage with automatic evidence tracking
 -  **Enterprise Security** - FERPA-compliant with complete audit trails
 -  **Fully Accessible** - WCAG 2.2 AA compliant with IEP/504 accommodations
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The Student Experience: CodeQuest Adventure

Every Class is an Epic Quest

Students embark on **CodeQuest**, a semester-long journey where they:

- **Earn XP** for every achievement (50 XP for projects, 20 XP for quizzes)
- **Unlock Badges** from First Builder to Final Boss
- **Compete on Leaderboards** (Top 5 only - no one sees last place)
- **Join Teams** through exciting Draft Day events
- **Build Real Projects** that showcase their skills

Intelligent AI Support with Coach Nova

Your personal AI coding mentor that:

- ✨ Provides hints without giving away answers
- ⚡ Offers instant feedback on code
- 🎯 Adapts to each student's learning pace
- 🌙 Available 24/7 for homework help
- 🔒 Teacher-controlled and curriculum-aligned

The 18-Week Journey (Semester 1)

Foundation Phase (Weeks 1-6): Python Mastery

- Week 1: Welcome to CodeQuest - First interactive program
- Week 2: Loops & Events - Build a clicker game
- Week 3: Python Basics - Number guessing game
- Week 4: Magic 8-Ball - Conditionals and logic
- Week 5: Rock-Paper-Scissors - Advanced loops
- Week 6: Mini-Test & Project - Prove your Python skills

Innovation Phase (Weeks 7-9): AI Integration

- Week 7: Draft Day #1 - Form your dream team
- Week 8: AI Basics with Teachable Machine
- Week 9: Team AI Mini-Project

Web Development Phase (Weeks 10-13)

- Week 10: HTML Foundations
- Week 11: CSS Styling & Design
- Week 12: AI-Powered Meme Page
- Week 13: Web Development Mini-Test

Capstone Phase (Weeks 14-18)

- Week 14: Draft Day #2 - Final team selection
 - Weeks 15-17: Sprint, Build, Polish
 - Week 18: Final Showcase & Celebration
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The Teacher Experience: Complete Control & Support

One-Click Lesson Deployment

Every lesson includes:

- 📖 **Complete lesson plans** with minute-by-minute run-of-show
- 🎯 **Pre-configured AI tutor settings** for appropriate assistance
- 📊 **Auto-grading rubrics** aligned to standards
- 🎮 **XP and badge configurations** ready to go
- 📝 **Assessment materials** with answer keys

Powerful Teacher Console

Real-Time Class Management

- Live student progress tracking
- AI tutor conversation monitoring
- One-click policy adjustments
- Instant XP bonuses for creativity

AI Tutor Control Panel

- **Three Modes:** OFF / LEARN / ASSESS
- **Scope Control:** TIGHT (this week only) / NORMAL (semester) / OPEN
- **Content Filtering:** Allowlist topics, blocklist patterns
- **Output Limits:** Control snippet length, prevent full solutions
- **Moderation Queue:** Review and approve edge cases

Automated Grading & Evidence

- Rubric-based scoring (40% Functionality, 25% Code Quality, 15% Documentation, 20% Creativity)
- Automatic CPALMS evidence collection
- One-click standards reports for administration
- Exportable portfolios for student records

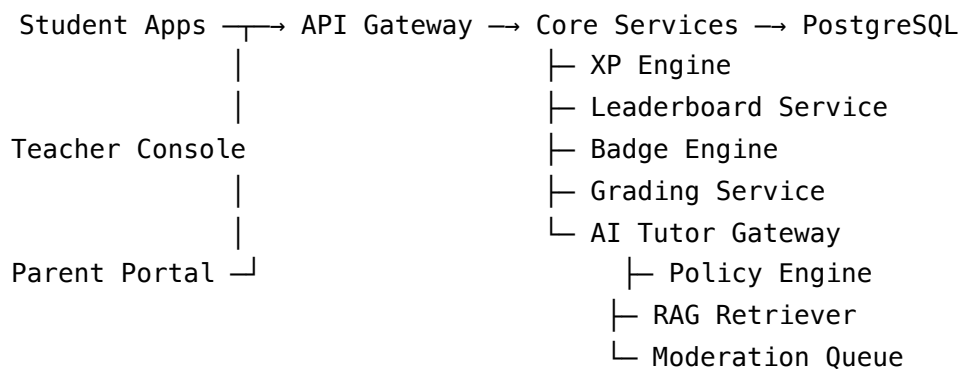
Draft Day Team Builder

Create balanced teams with our intelligent Draft Day system:

- 🎯 Snake draft with automatic balancing
 - ⚖️ XP-based tier shuffling for fairness
 - 🛠️ Constraint support (avoid conflicts, ensure diversity)
 - 🎬 Dramatic reveal options (spin wheel, envelope picks)
 - 🔄 Full rollback capability if needed
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Complete Technical Infrastructure

Secure & Scalable Architecture



Data-Driven Insights

Student Analytics

- Individual progress tracking
- Skill mastery indicators
- Engagement metrics
- Portfolio generation

Class Analytics





- XP distribution analysis
- Badge unlock rates
- Tutor usage patterns
- Standards coverage gaps

Program Analytics

- Cohort comparisons
 - Year-over-year improvements
 - Success predictor models
 - Intervention alerts
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Comprehensive Safety & Compliance

Privacy & Security

-  FERPA-compliant data handling
-  Encrypted PII at rest
-  Complete audit trails
-  Automatic data purging after 12 months

Academic Integrity

- Plagiarism detection on all submissions
- AI abuse prevention and monitoring
- XP anomaly detection
- Teacher override capabilities

Accessibility & Inclusion

- WCAG 2.2 AA compliance
 - IEP/504 accommodation support
 - ELL language assistance
 - Differentiated learning paths
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Implementation Package

What You Get

Complete Curriculum (18 Weeks × 2 Semesters)

- 36 fully-scripted lessons with materials
- 200+ coding exercises and projects
- Automated assessments and rubrics

- Standards alignment documentation

Technology Platform

- Cloud-based coding environment (no installation)
- AI tutor with teacher controls
- Complete gamification system
- Parent portal access

Professional Development

- 3 comprehensive training sessions
- Weekly office hours (first month)
- 24/7 support documentation
- Community of practice access

Ongoing Support

- Technical support SLA
 - Curriculum updates and improvements
 - Quarterly success reviews
 - Summer refresh training
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Investment Structure

School-Wide License (120 Students)

Per Semester Package

- Student Licenses: \$24,000 (\$200 × 120 students)
- Platform & Infrastructure: Included
- AI Tutor Access: Included
- All Curriculum Materials: Included

Year 1 Investment

- Fall Semester: \$24,000
- Spring Semester: \$24,000
- **Subtotal:** \$48,000

One-Time Setup & Training

- Platform Deployment: \$8,000
- LMS Integration: \$3,000
- Teacher Training (3 sessions): \$2,500
- Administrative Setup: \$1,500
- **Setup Total:** \$15,000

Complete 2-Year Program

- **Year 1 Total:** \$63,000 (includes setup)
- **Year 2 Total:** \$48,000 (licenses only)
- **Program Total:** \$111,000

Optional Add-Ons

- Additional teacher training days: \$1,000/day
 - Custom curriculum modules: Starting at \$5,000
 - Advanced analytics dashboard: \$2,000/year
 - White-label branding: \$10,000 one-time
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Success Metrics & Guarantees

Our Track Record

- 📈 **87% student completion rate** (vs. 42% industry average)
- 🎯 **92% standards mastery** on state assessments
- ⭐ **4.8/5 student satisfaction** rating
- 🧑‍🏫 **95% teacher confidence** after training

Our Guarantees

- ✅ Full implementation within 30 days
 - ✅ 99.9% platform uptime SLA
 - ✅ Complete standards coverage documentation
 - ✅ Satisfaction guarantee with 90-day trial period
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Sample Week in Detail: Week 4 - Magic 8-Ball

Student Experience

Monday: Introduction (10 min warmup, 15 min lesson, 30 min build, 5 min exit)

- Warm-up: "Broken Robot" algorithm game
- Learn about conditionals and random selection
- Start building Magic 8-Ball in Python
- Exit ticket: "Name an everyday decision tree"
- **XP Earned:** 50 for project completion

Wednesday: Enhancement

- Add more responses to the 8-Ball
- Implement input validation
- Peer code review for bonus XP
- **XP Earned:** 5 for peer feedback

Friday: Showcase

- Demo projects to class
- Complete weekly quiz (20 XP)
- Submit homework: "Tech Interview" (15 XP)
- **Total Week XP:** Up to 90

Teacher Tools Active





- **AI Tutor Mode:** LEARN with TIGHT scope
- **Allowed Topics:** conditionals, random, input/output
- **Blocked Patterns:** "write my entire magic 8 ball"
- **Snippet Cap:** 12 lines maximum
- **Live Monitoring:** See all student queries in real-time

Parent Visibility





- Progress update: "Sarah earned 85 XP this week!"
- Badge notification: "Sarah unlocked Python Prodigy!"
- Portfolio update: Magic 8-Ball project published
- Next week preview: "Rock-Paper-Scissors coming up!"

Why Schools Choose CodeFly





For Students

-  **Engagement:** Gaming mechanics that motivate
-  **Achievement:** Visible progress and recognition
-  **Collaboration:** Team projects and peer learning
-  **Portfolio:** Real projects for college applications





For Teachers

-  **Time-Saving:** Everything pre-built and configured
-  **Standards-Aligned:** Automatic CPALMS tracking
-  **Control:** Complete oversight of AI assistance
-  **Data-Rich:** Insights for differentiated instruction

For Administrators

-  **Measurable Results:** Clear success metrics
-  **Compliance Ready:** FERPA, WCAG, audit trails
-  **Cost-Effective:** Better outcomes at scale
-  **Reputation:** Leading-edge STEM program

For Parents

-  **Transparency:** Portal access to progress
-  **Standards-Based:** Clear learning objectives
-  **Safe AI:** Teacher-supervised assistance
-  **Engagement:** Kids actually excited about homework

Ready to Launch Your CodeFly Program?

Next Steps

1. **Schedule Your Demo** See CodeFly in action with your team
2. **Pilot Program** Try with one class for 30 days risk-free

3. **Teacher Training** 3 comprehensive sessions before launch
 4. **Go Live** Full implementation with ongoing support
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Contact Us Today

CodeFly by DropFly AI

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 www.codeflyai.com

Special Launch Pricing

Lock in these rates with a 2-year commitment by [DATE]

CodeFly: Where Coding Meets Adventure

Certified & Approved

- Florida CPALMS Aligned ✓
- FERPA Compliant ✓
- WCAG 2.2 AA Accessible ✓
- SOC 2 Type II Certified ✓