

STEM FORGED

PLAY - LEARN - MAKE



GAME DESIGN

Organized, Operated, and
Managed for your School



E SPORTS

Organization, Staffing, and
Events are All Included

Schools | Districts | Community Centers

Remote/Hybrid Extracurricular

No PD or Training Needed

Customizable Solutions

Out-of-the-Box Program

(833) 655-0556

info@stemforged.com

OUTSOURCED STEM ENRICHMENT

STEM Forged gives schools a remote instructor that teaches game design or eSports for you. Students can register for after-school time slots, or be taught right in the classroom. There's no need for teachers to learn or train in new technologies - we cover it all.

Students get access to remote instruction through classes, and they get additional support and help with STEM Forged Instructor coaching in the form of small group or 1-on-1 tutoring. This means any tech support, project help, advanced challenges, catching up, etc. is covered by us.



All meetings are recorded and archived. Instructors are background-checked and experienced with the technical subject matter, ready to handle any question or situation that may arise.

WE DO Everything



REGISTRATION

Scheduling and signup for students and parents for an out-of-school program is all handled by STEM Forged

TECH SUPPORT

Getting students, parents, and teachers all squared away with the technology being used is on us

INSTRUCTION

We run everything. Lecture, projects, tutoring, etc. is all part of the gig. Classroom teachers work as facilitators and light support for programs running in-class

LICENSING & ADMIN

Managing software, licenses, accounts, and district-specific cloud-based storage and sharing platform

WORKS IN ANY SETTING



In-Class



After School



From Home

WHAT IS STEM FORGED?

STEM Forged teaches STEM, Game Design, and eSports programs remotely. This can be done with a classroom facilitated by a teacher, in a computer lab, or from the students homes.

WHAT DOES STEM FORGED PROVIDE?

Instructors, curriculum, tech support, program and event management for any school or community organization. It's ready-to-go programming for kids.

WHAT DOES STEM FORGED COVER?

Video Games are the center of what STEM Forged teaches. Game Design is an educational program that teaches the STEM of video games; 3D modeling, animation, coding, programming, and more. Further expansions on the STEM topics learned in Game Design can be explored by experienced students. eSports is a social-emotional program that provides a digital extracurricular for children to participate in.



CURRENT TECH

We use industry standard software that is used by professionals and universities. There are many options out there, and we've done the work so you don't have to be a professional animator, programmer, or game designer to prepare your students to be one.



POWERFUL ENGAGEMENT

The natural affinity for technology and games is a perfect hook for kids to begin exploring the amazing world of STEM. Many kids don't even realize they're invested in learning because they are so focused on accomplishing their goals with us.



LASTING SKILL SET

Video games have gone through some bad publicity, but have proven to be a solid career choice, especially because the interdisciplinary nature of game design sets children up to specialize in other fields outside of game design.

STEM & GAME DESIGN

ARE YOU TEACHING GAME DESIGN?



Kids love video games (obviously). What these kids don't know is that there's an entire world of Science, Technology, Engineering, and Math that makes video games possible. Funnel the excitement of video games into a passion for learning the STEM that makes them possible.

While teaching them to use the tools found in professional game design studios, we also provide a safe and fun online community of learners. Students work with coaches to combine playing, learning, and making into a truly memorable experience (and marketable skill set!).

GAME DESIGN | 2 SEMESTERS

AN EXAMPLE SCHEDULE OF A CUSTOM PROGRAM

Q1 Weekly Topics

1. Orientation
2. 3D space and modeling
3. Advanced building
4. Animations
5. Interactive events
6. Triggers and event systems
7. Multi-scene gameplay events
8. Sound components
9. Game Design Challenge

Q2 Weekly Topics

1. Review & best practices
2. Inventory & pick-up items
3. Intro to variables and tags
4. Variables and tags cont.
5. Variable components
6. Multiplayer game design
7. Game mechanics & publishing
8. Game Design Challenge pt. 1
9. Game Design Challenge pt. 2

Q3 Weekly Topics

1. Review
2. Object event systems
3. Advanced events & spawners
4. AI/NPC navigation
5. Navigation cont., themes
6. Triggers and event systems
7. Javascript
8. Javascript cont.
9. Game Design Challenge

Q4 Weekly Topics

1. Orientation
2. 2D design
3. Coding for interactivity
4. UI and scorekeeping
5. Game design workflow
6. Game Design Document
7. Design and building
8. Beta testing
9. Game Design Challenge

Core Concepts

- Object Oriented Programming
- 3D design, modeling, and animation
- Syntax
- Methods, Events, & Functions
- Loops and Logic
- Conditions
- Internet Safety/Permanence
- Game Design Best Practices
- Variables

ISTE Standards

- 1A, 1B, 1D
- 2A, 2B, 2C
- 3C
- 4C
- 5C
- 6B, 6D
- 7C

RETHINK EXTRACURRICULAR ACTIVITY

Student's excitement for Video Game Design is matched or exceeded by eSports. STEM Forged has always had the mission of using what speaks to kids as a tool to educate them. eSports is the next obvious step.

Participating in an eSports team provides students with a controlled social environment, and opportunities to introduce them to the many professional aspects of an eSports program; Branding, leadership, marketing, sportsmanship, event management, networking, and much more are added to the large list of skills they learn from Video Game Design.



eSports teams offer students an opportunity to open up socially to their classmates, making them more comfortable participating in virtual learning environments with their team and coaches.

STEM Forged brings teamwork, communication, and social-emotional wellbeing to groups with an exciting twist with competitive gaming. Students work together to strategize, coordinate, and compete together.

ESPORTS | 2 SEMESTERS

AN EXAMPLE SCHEDULE OF A CUSTOM PROGRAM

Q1 Weekly Topics

1. Orientation & expectations
2. Digital citizenship & safety
3. Practicing effectively
4. Gamesense & communication
5. Personal awareness
6. Game design concepts
7. Emotional resilience
8. Game design industry
9. Free play

Q2 Weekly Topics

1. Individual skill assessment
2. Map design & strategy
3. Goal setting
4. Team balance
5. Diligence & consistency
6. Skills in & out of game
7. Individual skill assessment
8. Team assessment
9. Free play

Q3 Weekly Topics

1. Measuring growth
2. Self-assessment
3. Teamwork and roles
4. Being our best self
5. Collaboration assessment
6. Individual skill assessment
7. Interview prep & etiquette
8. Self-improvement
9. Free play

Q4 Weekly Topics

1. Elements of leadership
2. Leadership and teamwork
3. Adaptability
4. Responsibility in & out of game
5. Introspection & confidence
6. Your role in & out of game
7. Looking to the future
8. Awards & recognition
9. Free play

Core Concepts

- Self-awareness
- Self-confidence
- Communication
- Teamwork
- Internet safety
- Internet etiquette
- Goal-setting
- Emotional intelligence
- Resilience
- Strategy
- Applying past knowledge to new situations
- Hard work and diligence
- Dealing with failure
- Leadership
- Compassion

For more information about eSports with STEM Forged,
Contact esports@stemforged.com or go to www.stemforged.com/esports

ESPORTS GAMES

Choose from these or many other popular game titles

STEM Forged eSports teams operate on PC, with some games allowing cross-platform play with Xbox and PS4.



Rocket League Rated E

Fast paced action that brings teams of 3 head to head in a fantastic take on vehicular soccer. Rocket League is one of the most critically acclaimed sports games of all time.

Madden Rated E

Football simulation at its finest, and the most recognizable sports game franchises of all time. Suites individual and team play for multiple team sizes.

FIFA Rated E

20 years of FIFA has made it the biggest sports game franchise on the planet. A great example of realism and a perfect competitive game for eSports teams everywhere.

Overwatch Rated T

A quirky team-based action game with a heavy emphasis on player's roles within their team. It is one of the most popular eSports games since its release in 2016.

Spellbreak Rated T

Spellbreak is a large scale battle royale centered around improving your skills as a battlemage. Play solo or with teammates to grow stronger and dominate.

Knockout City Rated E

Dodgeball to the extreme. Join your teammates in a fantastic dodgeball style battlefield with all kinds of insane mechanics. As a new game, the potential for growth is limitless.

League of Legends Rated T

An action-packed strategy game. Choose your champion and go head to head with other teams in one of the most influential eSports games of the last decade.

Forza Rated E

Along with its active esports community, Forza is an incredible racing game with Beautiful graphics and top of the class mechanics that make it a hard game to beat.

For more information about eSports with STEM Forged,
Contact esports@stemforged.com or go to www.stemforged.com/esports