

Discover Opportunities with Minecraft EDU

Fresno EdTech Webinars

March 13, 2025

MINECRAFT

EDUCATION EDITION

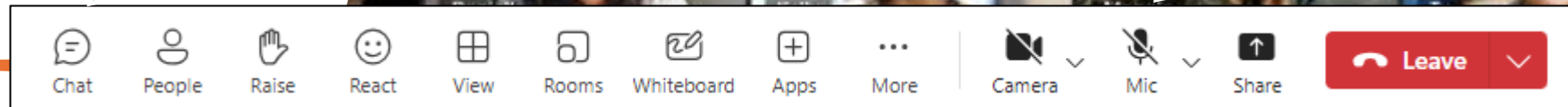


Welcome & Norms

Chat

Mute

- Mute mic when not speaking
- Use the Chat area to ask questions or get help
- Say Hello in our Chat Now:
 - How do your students use Minecraft EDU?
- Engage in the content and prompts





Session is being Recorded

- Recording in Progress
- Webinar Recording will be available at EdTech Website



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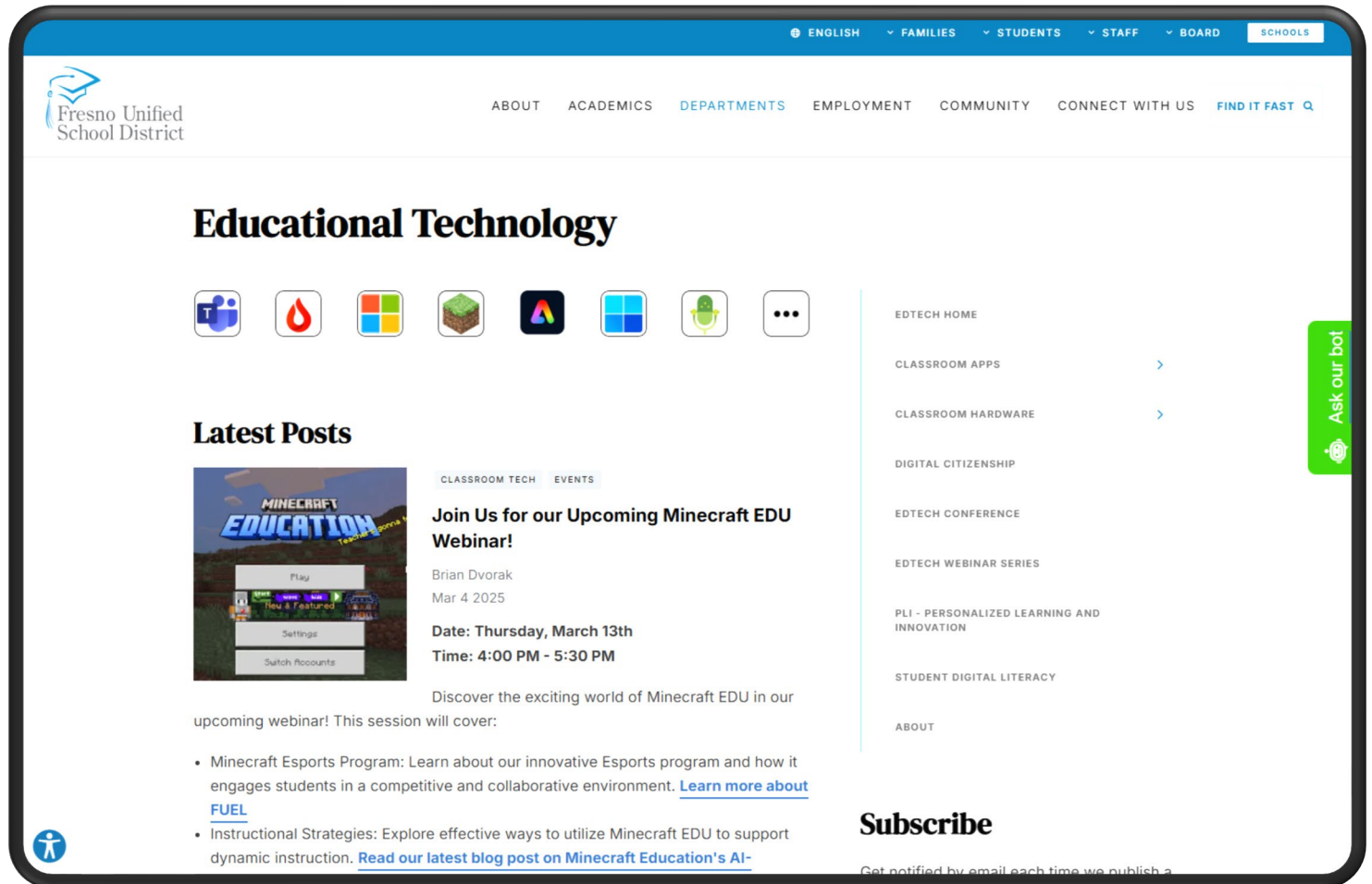


Who is Fresno
EdTech?

- Brian Dvorak
- Matthew Schwartz

Fresno EdTech Website (go.fresnou.org/edtech)

- Sign up for our Weekly Blog Posts
- Try our new Chat Bot
- Student Digital Literacy – Updated Tech Scope and Sequence
- Reminder: EdTech Webinar Resources



Digital Collaboration Skills with Minecraft!

Global Collaborator (Grades 3-5)

Students use digital tools to broaden their perspectives and enrich their learning by collaborating with others and working effectively in teams locally and globally.

Alignment to CCSS	Skills	Additional Resources	3	4	5
SL.1, SL.2, R.7	Participate in virtual field trips to broaden my global knowledge.	Microsoft Teams Meetings Find Virtual Fieldtrips NASA Fieldtrips	P	P	P
SL.5	Use digital drawing tools and presentation software collaboratively to express ideas	Microsoft Whiteboard PowerPoint Tutorials	P	P	P
W.6, SL.1, SL.2, SL.5	Work collaboratively online with other students under teacher supervision	Class Teams Posts OneDrive	D	P	P
W.6, SL.1, SL.2, SL.5	Use district approved cloud/online tools for collaboration (discussions forums, shared files, etc.)	Class Teams Posts OneDrive	D	D	P
SL.1, SL.4, SL.5	Videoconference to communicate and learn with other classrooms.	Microsoft Teams Meetings	I	D	P
SL.2, SL.5	Use digital communication tools to broaden my global knowledge.		I	D	P
R.7	Use digital maps to broaden my global knowledge.		I	I	D
W.6, SL.5, SL.6	Participate in online projects by uploading content, photo, audio, or video.	Class Teams Posts OneDrive		I	D
Key: I = Introducing D = Developing P = Proficient					

Updated: 01/08/25

Webinar Series - Resources



Links to Webinar Recordings and Resources

Check back here to find Recordings of all of our Webinars and related Resources.

Session Title	Resources
Adobe Express - Sept 12th	Recording Resources
AI Teacher Assistants - Oct 9th	Recording Presentation

[EDTECH HOME](#)

[CLASSROOM APPS](#)

[CLASSROOM HARDWARE](#)

[DIGITAL CITIZENSHIP](#)

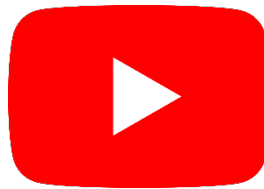
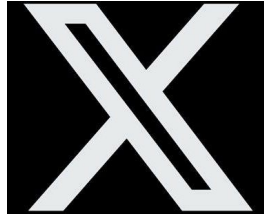
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[PLI - PERSONALIZED LEARNING INNOVATION](#)

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Fresno EdTech



IT STEAM TEAM



Saori Jansen, Savanna Kantarci, Maria Sandavol-Enriquez, Abel Fernandez Jr.



STEAM Opportunities

Esports, Coding, Robotics, Drones



MINECRAFT ESPORTS

District Contact: Savanna Kantarci
Email: MCesports@fresnounified.org
Website: [FUSD Minecraft Esports](#)
Video: [Benefits of Minecraft Esports](#)
[Facebook](#) & [Instagram](#)



Let's get Crafting!



Minecraft Presenters Intro

MINECRAFT **EDUCATION**

MEET YOUR Presenter



- **Charity Nix**
 - NCCE Distinguished Professional Learning Specialist
 - Minecraft Education Ambassador
 - Minecraft Education Influencer

- @Butterflynix 

- @NCCE_EdTech

- @PlayCraftLearn

- @MicrosoftEDU

- Charity Nix 
- MicrosoftEducation



MEET YOUR Presenter



- **Merry Hofmeister**
 - NCCE Professional Learning Specialist
 - Minecraft Education Ambassador
 - Minecraft Education Influencer

- @TheMerryHof
- @NCCE_EdTech
- @PlayCraftLearn
- @MicrosoftEDU



- MicrosoftEducation





CRAFTING A GAME-BASED LEARNING CLASSROOM



An Introduction to Minecraft Education

THE AGENDA



MINECRAFT VS MINECRAFT EDUCATION

1

PLAYING MINECRAFT EDUCATION

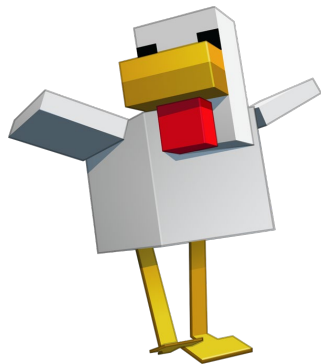
2

AN INTRODUCTION TO GAME-BASED LEARNING

3

INTRODUCING MINECRAFT EDU TO YOUR CLASSROOM

4



MINECRAFT VS MINECRAFT EDUCATION



| What is Minecraft?



AN INTRODUCTION TO MINECRAFT



MINECRAFT



3D Blocky World

Minecraft offers a 3D block-based world for you to make your own.



Flexible Gameplay Options

Whether you want to survive the night or simply be creative, Minecraft offers a mode to suit your play style.



Open-Ended Nature

Minecraft is a sandbox game, meaning you set your own goals.



Multiplayer Collaboration

Multiplayer enables real-time collaboration with other builders in the same blocky world.

WHAT IS MINECRAFT EDUCATION?

MINECRAFT EDUCATION



Minecraft Education is the educational version of the popular game Minecraft.

It is a learning tool that harnesses the power of digital game-based learning to promote creativity, collaboration, and problem solving.

It's an immersive environment where the only limitation is your imagination.



MINECRAFT EDUCATION: A CLASSROOM-READY TOOL

Pre-built Lessons

Explore over 600 standard-aligned lessons across a broad range of subjects. These lessons engage students and give educators a chance to contribute by writing and submitting their own Minecraft lessons.



Cross-curricular Support

Minecraft Education isn't just engaging; it's a comprehensive tool that enhances learning across subjects including STEM, Coding, SEL, History, Language Arts, and more, through its extensive in-game library and online lesson suite.



Classroom Management Tools

Minecraft Education offers in-game management tools that mirror traditional classroom controls, helping educators manage digital spaces effectively.



Classroom Collaboration

Enhance teamwork and problem-solving with the platform's multiplayer functionality, which enables students to collaborate on projects and activities in real-time.



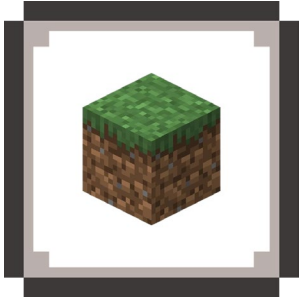
PLAYING MINECRAFT EDUCATION



Placing Your First Block



KEY WORDS



Block

The basic unit of structure in Minecraft.



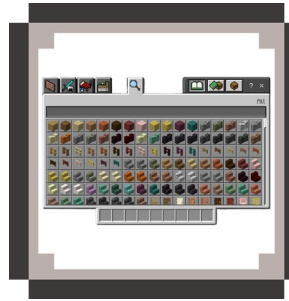
Library

This is the central hub for all build challenges and pre-made lessons available to you within the game.



World

This is the virtual space within Minecraft where students can build. These can be saved as files that show up in *My Worlds*.



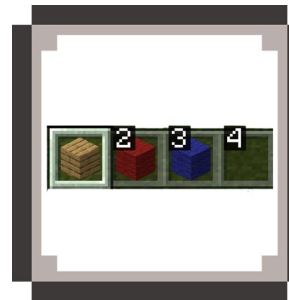
Inventory

This is a pop-up menu that allows students to access and manage items, bringing them into their hotbar.



Skin

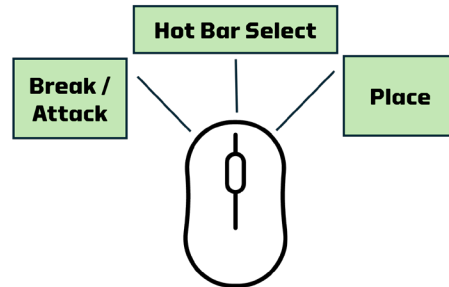
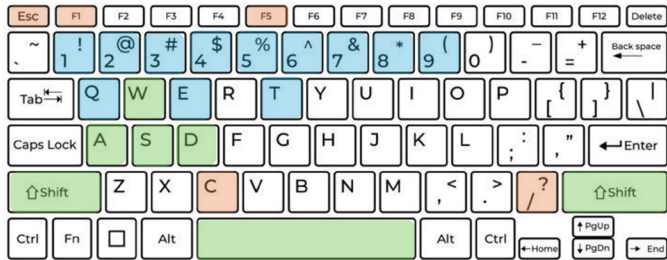
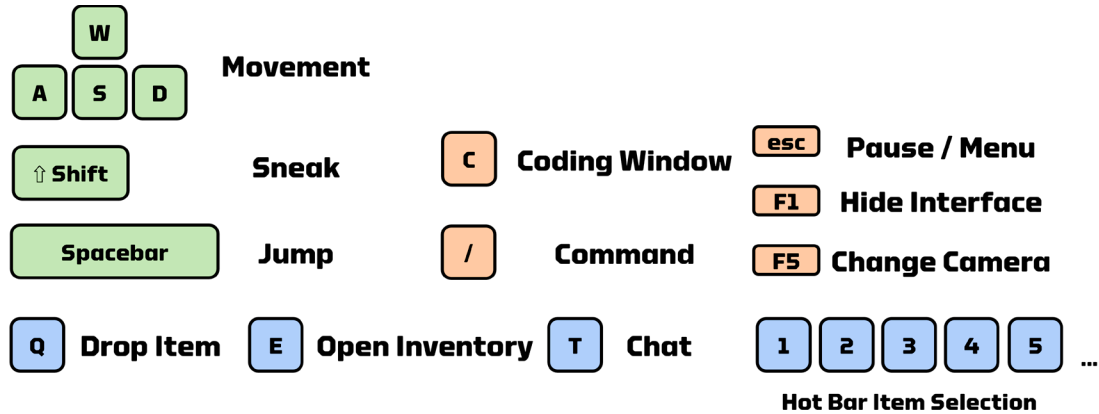
A customisable texture applied to a player's avatar to personalise the learning experience.



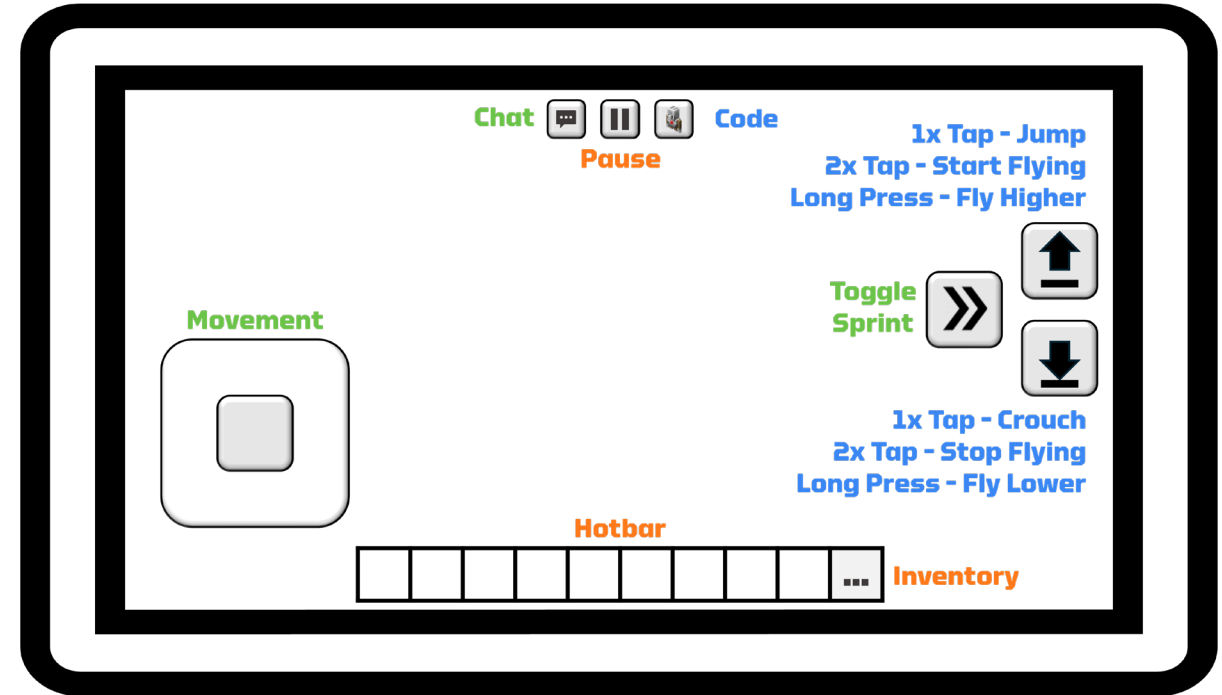
Hotbar

These are the player's "pockets", items from the inventory can be placed here allowing you to place them in the world.

NAVIGATING MINECRAFT CONTROLS



Keyboard and Mouse



Touchscreen

HOW YOU WILL SEE THE WORLD



1. Item in Hand

2. The Hot Bar

3. Crosshairs

4. Control Keys

UNDO?



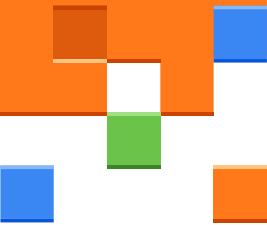
Explore the Main Menu and Place a Few Blocks



AN INTRODUCTION TO GAME-BASED LEARNING



What is Game-Based Learning?



AN INTRODUCTION TO GAME-BASED LEARNING



MINECRAFT EDUCATION



Game-Based Learning (GBL) uses "learning through games" as a teaching method, encompassing both digital and non-digital games.

Wu et al., 2012

GBL engages students with educational content in a fun and dynamic way, ideally combining the engagement of games with the achievement of traditional learning outcomes.

Pho & Dinscore, 2015

THE ARGUMENT FOR GAME-BASED LEARNING



Motivation

By leveraging the engagement commonly found in recreational video gaming, this approach ensures students remain focused and motivated to learn.



Student Engagement

It immerses students in active thinking, doing, feeling, and collaborating, creating a vibrant and dynamic educational experience.



Adaptivity

This method tailors itself to the varying levels of understanding and skills among learners, making education both accessible and personalised.



Graceful Failure

It promotes learning through making mistakes, fostering resilience and a growth mindset by viewing failure as a stepping stone.



THE POWER OF PLAY

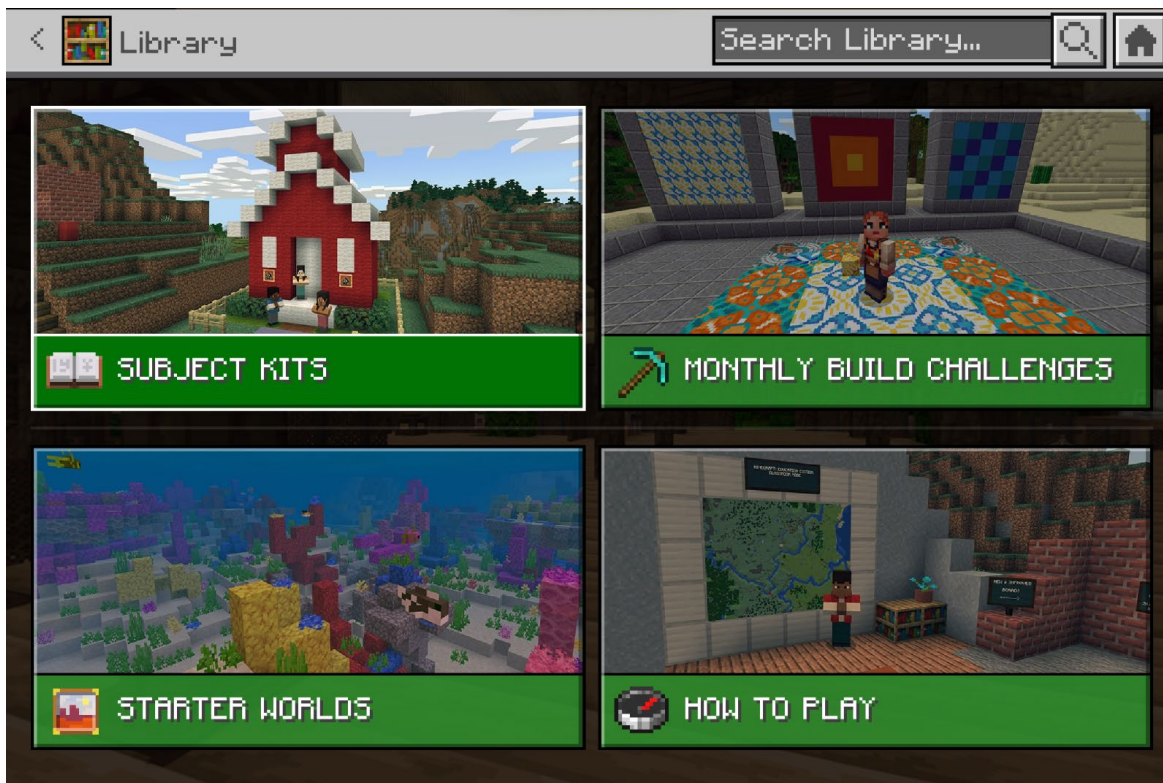


Introducing Minecraft Edu to your Classroom

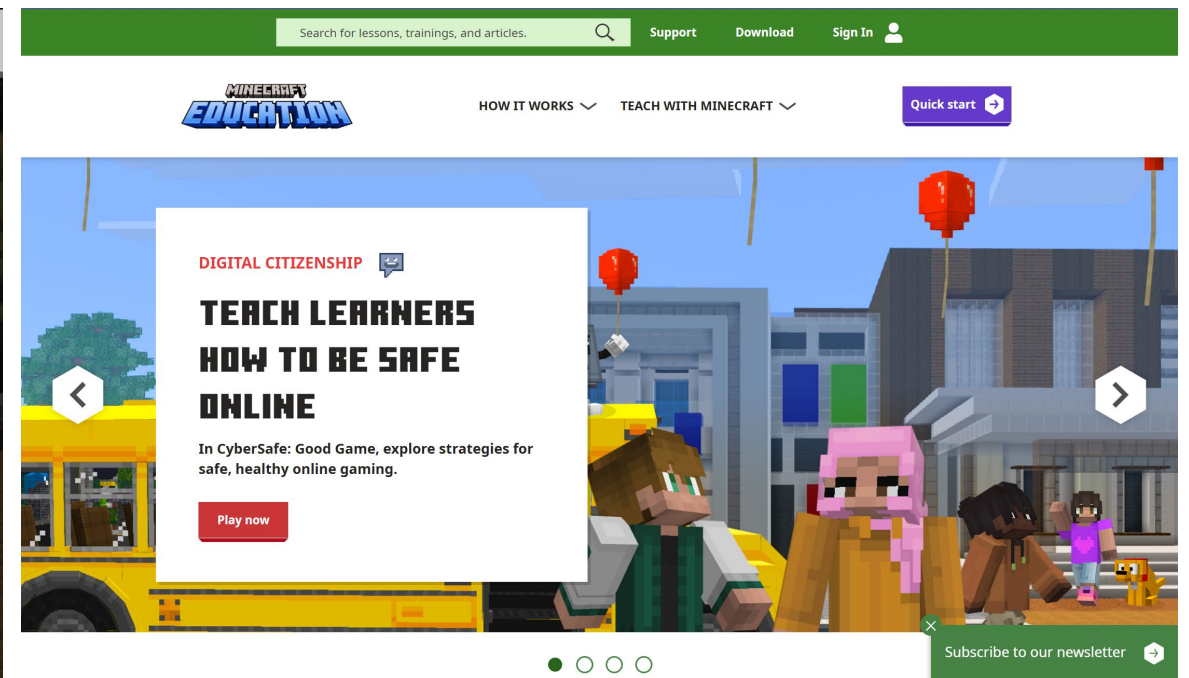


MINECRAFT EDUCATION IN YOUR CLASSROOM

IN-GAME LIBRARY



MINECRAFT EDU WEBSITE



education.minecraft.net

YOUR FIRST LESSON - THE PIXEL ART CHALLENGE

Choose your favourite logo and use your newly acquired skills to recreate it inside Minecraft Education.

What is Pixel Art?

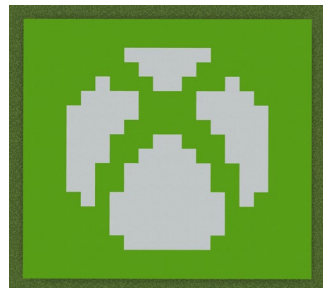
- 🧱 **Digital art** using tiny squares (pixels) to create images.
- 🧱 Pixels are the smallest screen points displaying a **single colour**.

Planning Your Masterpiece

- Encourage students to **plan designs** before building.
- Decide on a design, sketch on graph paper.
- Top Tip:** Consider creating subject-specific Pixel Art (e.g. Pixel Portraits for Art).



Novice



Advanced



PIXEL ART

Use this 16x16 grid to plan out your pixel art before you start building in Minecraft.

Topic	
Resources Needed	



Scale

1 Square = Block(s)

YOUR FIRST LESSON - THE PIXEL ART CHALLENGE



LESSON TITLE	The Pixel Art Challenge
Topic	[INSERT TOPIC OR SUBJECT THAT WILL BE EXPLORED THROUGH PIXEL ART]
Standard and Introduction <i>How will I introduce this topic outside of Minecraft?</i>	Objective: To utilise Minecraft Education as a tool to introduce students to the concept of pixel art, integrating technology with creative expression in a familiar gaming environment. Introduction: - Start by introducing Minecraft Education as a new tool for the classroom, ensuring to gauge the students' familiarity with Minecraft itself. - Discuss the concept of a pixel, explaining it as the smallest unit of a digital image, which can be used creatively to represent larger pictures or scenes, much like mosaic tiles. - Connect to current learning themes, such as recreating characters from a class novel or landmarks in pixel form, enhancing their

Lesson Plan

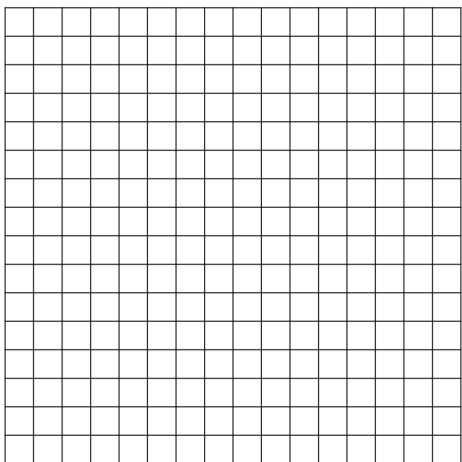


Slideshow

**PIXEL ART**

Use this 16x16 grid to plan out your pixel art before you start building in Minecraft.

Topic	
Resources Needed	



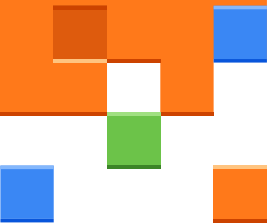
Scale
1 Square =  Block(s)

Activity Sheet

IMPLEMENTING MINECRAFT BUILD CHALLENGES



Exploring the World of Build Challenges



EXPLORING THE WORLD OF BUILD



MINECRAFT EDUCATION

BUILD CHALLENGES



Accessibility Park

By Minecraft...



Build A Mars Rover

By Minecraft...



Bee Creative

By Minecraft...



Build Your Emotion

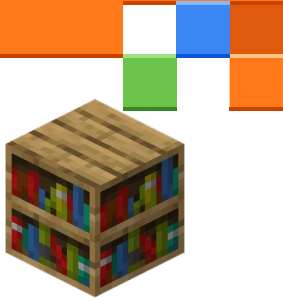
By Minecraft...

Build challenges are project-based tasks that encourage creativity, analytical thinking, and problem-solving.

Each challenge has a unique theme or goal with clear objectives, supporting various subjects.

Available in-game and online, they come with lesson objectives and resources for educators.

BRINGING THESE CHALLENGES INTO YOUR CLASSROOM



1. Visit the Build Challenge Page

Go to the Build Challenges page - aka.ms/MEBuildChallenges

2. Browse Challenges

Explore the many build challenges available. Pay attention to their **themes, goals, and educational content**.

3. Align with Curriculum

Consider how each challenge fits into **your curriculum**. Look for challenges that complement the topics you are teaching or plan to teach.

4. Enhance Existing PBL

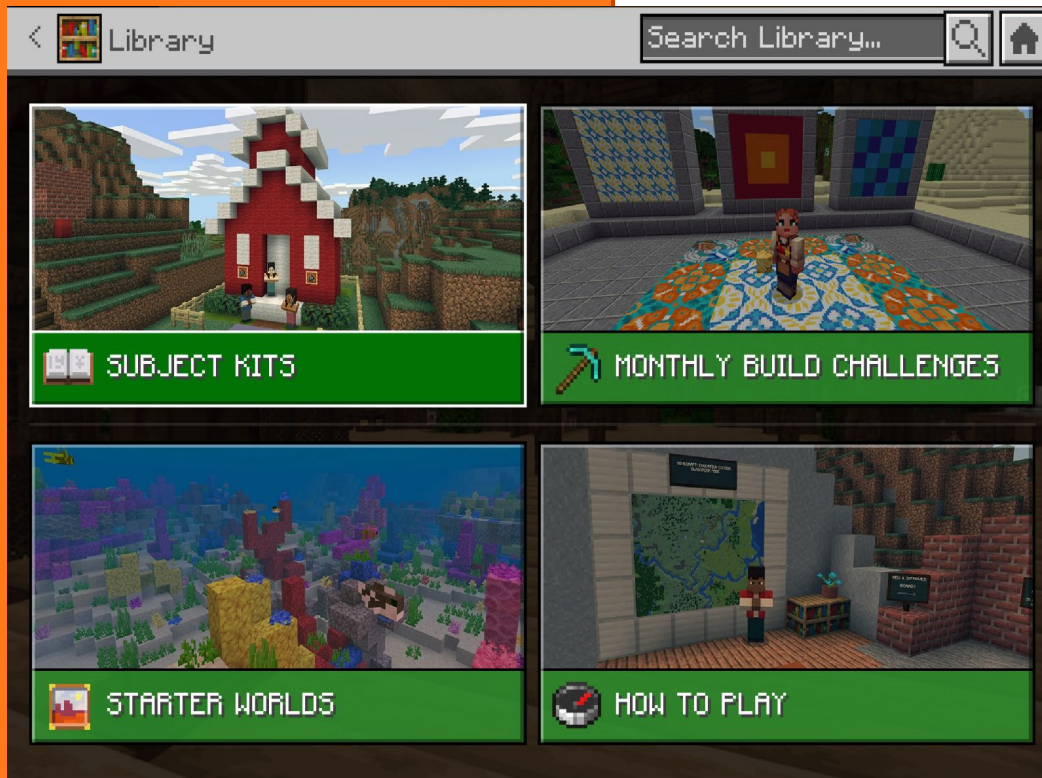
Reflect on your **current project-based learning activities**. Identify challenges that could enhance or extend these projects, adding new dimensions to your students' learning experience.

5. Choose a Challenge

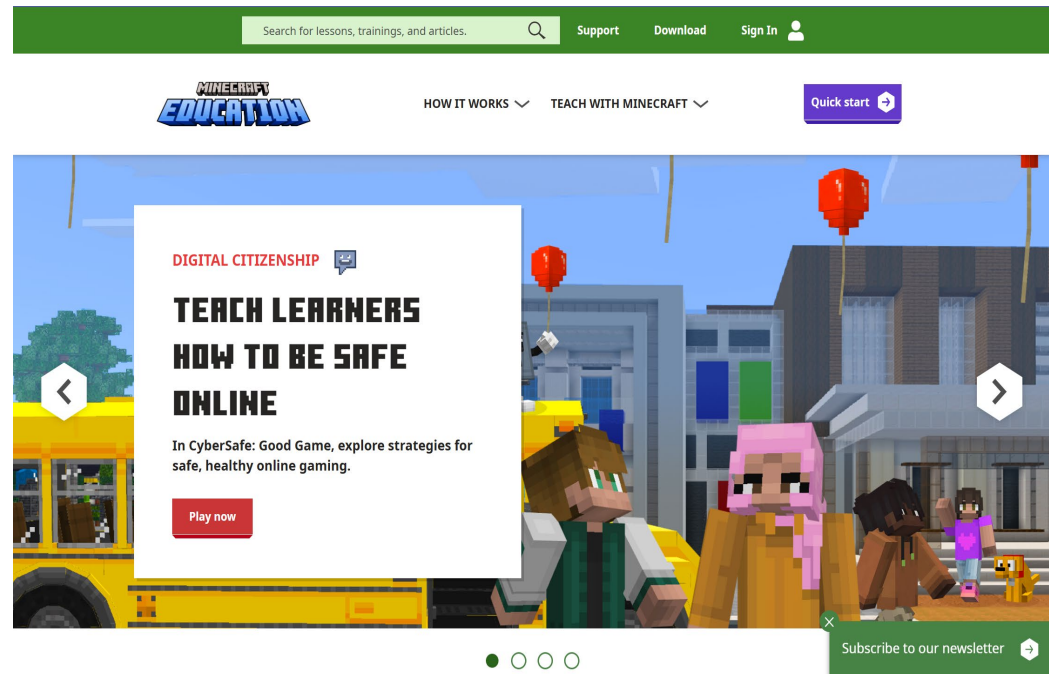
Select a build challenge that **best aligns with your teaching goals** and offers the most enriching experience for your students.

TIME TO EXPLORE

IN-GAME LIBRARY



MINECRAFT EDU WEBSITE



education.minecraft.net



MINECRAFT **EDUCATION**

<https://bit.ly/fresnominecraft>

EXPLORING LESSON CRAFTER

Minecraft Education's AI Assistant



Lesson Crafter

AI-Powered Lesson Plans: Generate differentiated lessons for any topic and age group with ease.

Standards-Aligned: Ensure your lessons meet curriculum standards or begin with a standard and build a lesson to support it.

Effortless Implementation: Lessons start with a blank canvas and let your students' creativity shine. No complex setup or world-building required for you, the educator.

CREATE A MINECRAFT EDUCATION LESSON PLAN

Generate a custom lesson plan in Minecraft Education for any topic you choose.

Lesson Topic

I want to create a Minecraft Lesson about...



Target Age

Target Age



GENERATE >

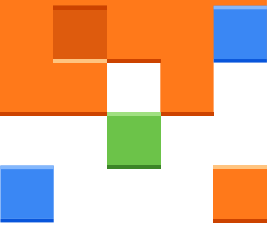
The Lesson Crafter is powered by AI, so surprises and mistakes are possible. [Terms](#) | [Privacy](#).
Please don't enter any personal information. Our team may be reviewing your prompts to improve the tool.

<https://teachertools.minecraftereduserservices.com/lessons>

MAKING ASSESSMENT AND LEARNING MINE



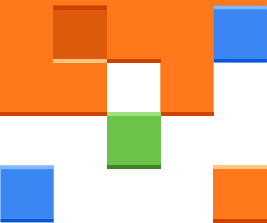
Exploring Assessment in Minecraft
Education



LEVERAGING FORMATIVE ASSESSMENT IN MINECRAFT EDUCATION



An Introduction to Formative Assessment



AN INTRODUCTION TO FORMATIVE



MINECRAFT EDUCATION



Formative assessment is crucial for **effective teaching**, providing insights into student understanding and progress.

Built-in tools offer educators a **window into students' learning** without the need to constantly oversee their progress physically.

These tools are **accessible to educators**, regardless of their proficiency in the game.

THE BIOME EXPLORATION CHALLENGE



Embark on an adventure to explore, **document**, and leave your mark on a **biome** of your choice. Use tools like the Camera and Book & Quill to share your discoveries and insights with **future explorers**.

What is a Biome?

- A biome is a large area characterized by its vegetation, **soil, climate, and wildlife (mobs)**.
- Minecraft Education offers various biomes, each providing a **unique ecosystem** for exploration and lessons.

Preparing for Your Expedition

- List and note the features you seek to discover, such as specific plants, animals, or landmarks.
- **Top Tip:** Use premade worlds for a different type of exploration. Tailor the challenge to your subject area and integrate it with our new tools.



FORMATIVE ASSESSMENT TOOLS



Camera and Portfolio

The camera enhances educational experiences by allowing students and educators to capture and document learning visually, while the portfolio serves as a digital album for storing and viewing these images, supporting visual documentation and reflection within Minecraft Education.

Applications

Documenting and Reflecting on Learning Journeys

- Capture and annotate learning progress, promoting student ownership and critical thinking.

Facilitating Easy Sharing and Assessment

- Export portfolios as PDFs for easy review and assessment of student engagement and learning.

Supporting Diverse Educational Activities

- Enhance educational activities like science experiments, historical reconstructions, and storytelling through visual documentation and captions.

Implementation



Observation



Exit Tickets



Concept Mapping

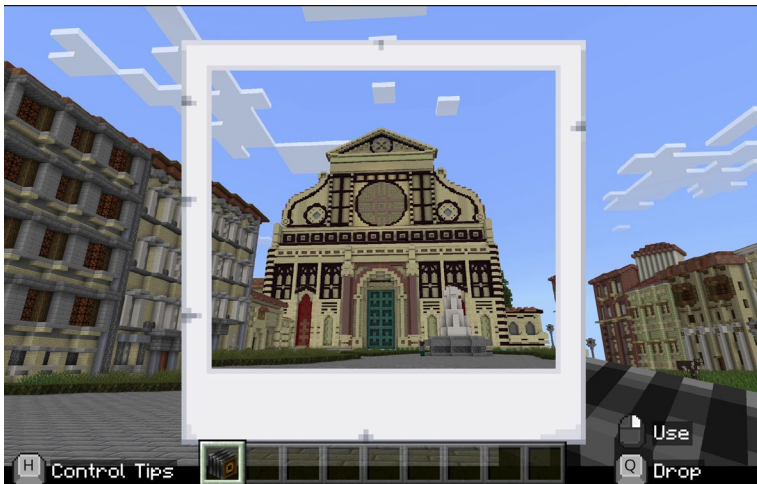
FORMATIVE ASSESSMENT TOOLS



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USING THE CAMERA



PORTFOLIO CAPTIONING



EXPORTED IMAGES



FORMATIVE ASSESSMENT TOOLS



Book and Quill

The Book and Quill is essential for student learning through written narratives and detailed documentation, allowing images taken with the camera and text to be combined. This enables students to pair their written narratives and reflections with visual evidence.

Applications

Encouraging In-depth Reflections

- Students can use the Book and Quill to document and reflect on their learning journey, explaining concepts and decisions thoroughly.

Fostering Creative Storytelling

- The tool allows students to combine images and text, creating and narrating their own stories within Minecraft, enhancing their storytelling experience with visual evidence.

Promoting Collaborative Learning

- Students can share their exported books with classmates for peer assessment, fostering a collaborative learning environment.

Implementation



Questioning

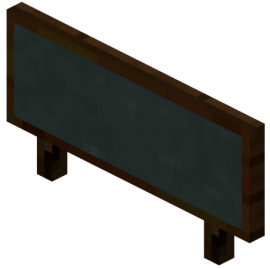


Learning Logs



Peer Assessment

FORMATIVE ASSESSMENT TOOLS



Chalkboards

Available in three sizes, slate, poster, and board, chalkboards allow for extensive text input, enabling students to label builds, display research findings, and express their understanding of various subjects, offering a significant improvement over traditional signs.

Applications

Enhancing Project Summarization

- Students use large boards to summarize the main points of their projects, facilitating clear presentations of their work.

Communicating Research Findings

- Chalkboards allow students to convey the research that informed their build decisions, reinforcing the educational value of their creations.

Supporting Interactive Learning

- Chalkboards can be placed throughout the world to guide exploratory learning, turning the environment into a navigational textbook.

Implementation



Labelling



KWL Charts



Checklists

SUMMATIVE ASSESSMENTS IN MINECRAFT EDUCATION



Integrating Classroom-Based Assessments



INTEGRATING CLASSROOM-BASED

MINECRAFT EDUCATION



Summative assessments are essential for evaluating students' learning at the end of a unit of work.

They include tests, projects, presentations, and exams to measure teaching effectiveness and student understanding.

Minecraft Education can be an innovative tool for these summative assessments.



WHAT IS PROJECT-BASED LEARNING?

MINECRAFT EDUCATION



Project-Based Learning (PBL) places students at the centre of real-world problems and challenges, sparking curiosity and encouraging investigation, creation, and reflection.

PBL extends beyond traditional classroom boundaries, engaging students in immersive projects that can last days, weeks, or even months.

KEY BENEFITS OF PROJECT-BASED LEARNING

MINECRAFT EDUCATION



Active Learning

PBL in Minecraft Education promotes active engagement, leadership, and self-regulation in students.



Real-World Relevance

PBL links projects to current events, enhancing learning relevance and impact.



Future Success

PBL cultivates essential skills for academic and professional success.



Creativity and Innovation

PBL encourages creative thinking and innovative problem-solving within Minecraft Education.

MINECRAFT EDUCATION AS A PBL TOOL



Immersive and Interactive Environment

Minecraft Education provides a canvas for students to develop and showcase their projects interactively.



Curriculum-Aligned Build Challenges

Educators can design engaging build challenges that cater to diverse learning needs and align with the curriculum.



Comprehensive Educational Resources

The platform offers tools and resources to support project management, assessment, and documentation.



Collaborative Learning

Minecraft Education fosters a classroom where students actively collaborate, explore, and apply knowledge in engaging, game-based projects.



COLLABORATIVE LEARNING WITH



Multiplayer

The multiplayer feature of Minecraft Education is one of the most engaging aspects of the game and offers educators the opportunity to foster collaboration, communication, and problem-solving skills among students.

Overview

Easy Connectivity

- Utilizes **picture-based join codes** for easy connectivity.

Optimal Group Size

- Supports up to 40 players, but **small groups of 4-5** are recommended for better performance.

Cross-Platform Compatibility

- Compatible across **all supported platforms**, though server-style multiplayer is currently unavailable.

Requirements



Same Tenant



Version Consistency

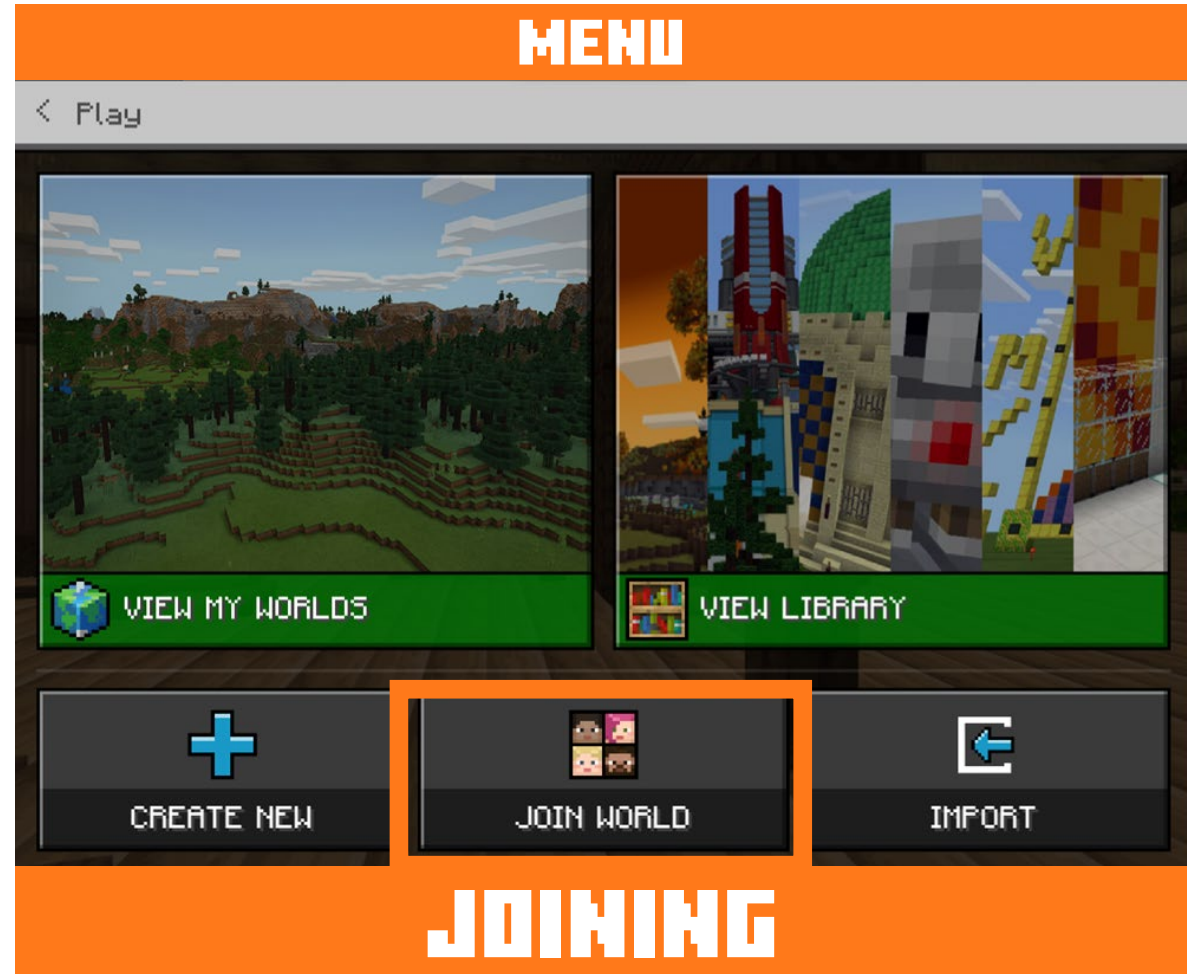
aka.ms/MEEngagement

COLLABORATIVE LEARNING WITH MULTIPLAYER

IN-GAME



MENU



MINECRAFT EDUCATION

ENDLESS POSSIBILITIES



More Learning and Resources



Minecraft Computer Science Curriculum

<https://education.minecraft.net/en-us/resources/computer-science-subject-kit>

EMERGING SKILLS AND MINECRAFT



Rising Demand for Skills

77% of employers in 2023 reported a shortage of skilled individuals, emphasising the need for both technical and soft skills like critical thinking.



Preparing for Unseen Jobs

Educators must equip students for a future where 85% of jobs are yet to be created, focusing on adaptable, future-ready skills.



Transforming Education with Game-Based Learning

Minecraft Education combines core skills like collaboration and problem-solving with digital fluency in a game-based environment.



Computational Thinking and Minecraft Education

Minecraft Education fosters computational thinking and coding through its built-in features and extensive cyber skills resources, transforming learning into an engaging and adventurous experience.



HOUR OF CODE ACTIVITIES

Generation AI

Lights, Camera, Code!

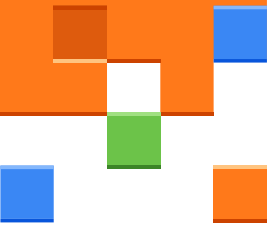
Escape Estate

Timecraft

A Tale of Two Villages

<https://education.minecraft.net/en-us/resources/hour-code>

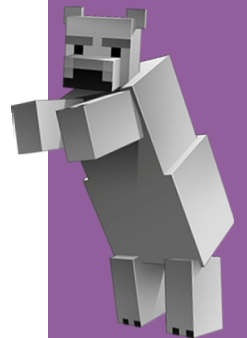
ESPORTS



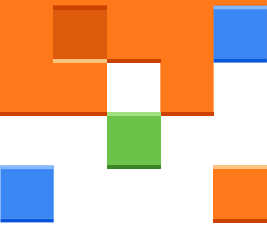


Getting Started with ESports

1. The Esports Club Toolkit is a step-by-step guide focused on developing esports competencies and how to develop Minecraft clubs within your school. You will find details of what it takes to create a Minecraft club, how to run club esports challenges, as well as templates and real-life examples you can apply for your own club! [Download here.](#)
2. The Esports Competition Guide dives deeper into how to leverage your creativity in the next phase of your esports journey and provides a step-by-step strategy on how to create an internal esports competition within your school using Minecraft: Education Edition. Explore examples of how to develop your competition, build your bracket, and drive engagement across your entire school along with real life examples of successful Minecraft esports challenges for your guidance. [Download here.](#)
3. Our Esports Subject Kit features four Esports lesson collections. The Make & Model collection fosters open builds, from mysterious libraries to a Maker Space, and includes Practice Plaza for up to 12 teams without buzzers or scoring. The Code 2 Create collection features esports worlds with the ability to incorporate coding in computer science into esports. Students can demonstrate their coding skills on the battle arena. The Creative Clash collection fosters team building through role-playing games that feature sharp strategic skills and team communication in short 15-minute games. The Challenge Series supports introductory Esports Clubs, from building a bedroom to coding in coral, preparing students for competition.



MAKE AND MODEL





Creative Coliseum

By Minecraft Education



Make & Model: Binary Builders

By Minecraft Education



Make & Model: Space Race

By Minecraft Education



Make & Model: Splat Racers

By Minecraft Education



Practice Plaza X12

By Minecraft Education



Practice Plaza X4

By Minecraft Education



CYBER AND AI



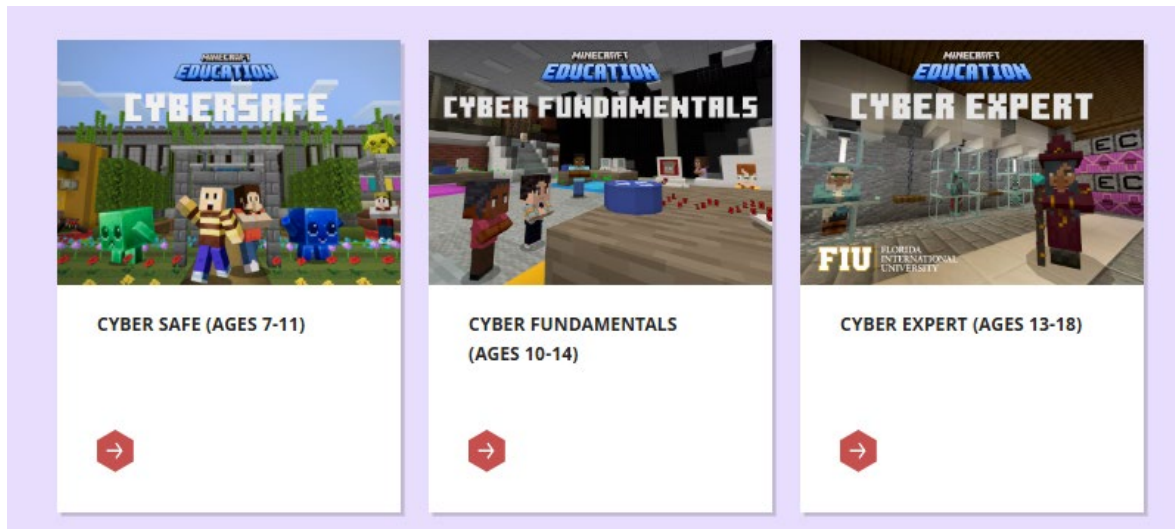
MINECRAFT
EDUCATION
CYBER



Cyber and AI

- Cyber and Digital Citizenship
 - <https://education.minecraft.net/en-us/discover/cyber-and-digital-safety>

- AI
 - <https://education.minecraft.net/en-us/discover/ai>



Wrap Up Questions?



Survey Link:

<http://ncce.link/MEPostSurvey>



EdTech Training Evaluation Form - 2025



Please Complete the Feedback Form

- Your feedback informs what types of trainings we may offer
- Your feedback can help us improve our training
- We will send a follow-up form
- We would love to visit your classroom and see how you're using AI

Thank you for attending our
EdTech Webinar!