

T4Lkids

technology 4 learning

THE MINECRAFT DESIGN ISSUE

Design a **space** for
your **community!**

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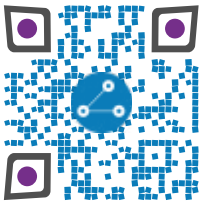
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For more information and
teacher notes, visit
T4L.link/T4Lkids



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**EDITOR'S
Note**

HEY THERE T4L KIDS!

This issue is not just for Minecraft fans, but anyone interested in learning about how public and community spaces are built. Using a tool like Minecraft Education Edition (M:EE) can help understand the planning, building and construction processes behind everything from a school to a shopping centre to a city!

Why don't you get a team together and challenge yourself to redesign a space at school? See page 3 for all the details.

Good luck!


Mark Greentree

Director,
Technology 4 Learning



JUST JOKES + PUZZLER

BRAINTEASER

 I am an odd number.
Take away a letter and I become
even. What number am I?

A: Seven

**Q: What do Minecraft players
do on the weekend?**

A: They go to square dances.

Q: Why was there a bug in the computer?

A: Because it was looking for a byte to eat!

**Q: How do Minecraft players
celebrate?**

A: They throw block parties





Q: Where do all the cool mice live?

A: In their cool mouse pads



Team challenge: design a space for your school or community

Could you design an awesome space, new type of building or completely reimagine something that already exists? Better yet – can you create it in Minecraft?

-  Enter as a team (or individually)
-  Think about what makes a good design
-  Could you improve on an existing space or create something you know your community needs?
-  Capture your Minecraft creation in a screen shot or on video and get your teacher to send it to: stem.T4L@det.nsw.edu.au. There are prizes to be won!



1

CREATE A SCHOOL DESIGN!

- playground
- library
- classroom of the future
- sensory space
- garden or community kitchen
- outdoor gym
- sports field
- sustainable space

2

CREATE A COMMUNITY SPACE!

- plaza
- community shed
- skate park
- outdoor art gallery
- bandstand or performance space
- football field
- netball courts

3

OR COMBINE A FEW IDEAS TO CREATE A COMPLETELY NEW SPACE!

- library + playground + gym = interactive library where you read while getting fit
- bandstand + garden + sensory space = where you grow your garden with music
- classroom of the future + outdoor art gallery = an outdoor classroom with your work displayed in the community

Designing your NEW community SPACE!

“Wonder is the beginning of wisdom”

- Socrates

STEPS TO SUCCESS >>

2

RESEARCH

- What does your space need?
- What should you build around it?
- Will your idea support the people in your community?

1

DEFINE YOUR VISION

- What are the needs of your community?
- Plan your solution together
- How will it work in M:EE?

3

PLAN

- Brainstorm common structures
- What do you think it will need in the future?
- Focus on innovation and new ideas

4

UPSKILL

- Use the resources in this magazine to learn how to do more in M:EE!

5

BUILD

- Prototype and build in M:EE
- Get feedback

6

TEST AND TRIAL

- Get feedback on your prototype from other students, a teacher, a community member or expert
- Use feedback to modify and retest
- Now finalise your world – is it ready?

7

SHARE

- Has your team agreed that your design is complete?
- Complete a double check just in case!
- Share your design with your community or audience. Don't forget us at T4L kids magazine



Getting started with Minecraft Education Edition (M:EE)

NSW public schools have access to M:EE. This powerful edition of Minecraft is specifically designed for students.

Why is M:EE such a great prototyping tool?

M:EE has added features that allow you to create in the Minecraft universe. You can also:



Use NPCs (non-player-characters) to provide direction in your world



Create posters, boards and slates to convey information



Use the Code Builder to supercharge your building process



Engineer, power and make your world interactive with Redstone mechanics



How do I access it?



You must get your teacher to sign you up before accessing M:EE



Then simply log in with your @education.nsw.gov.au email address



Download M:EE - Windows 10, iPadOS or Mac



You can learn more about M:EE on the website

Learn more! (P.S. – tell your teachers)



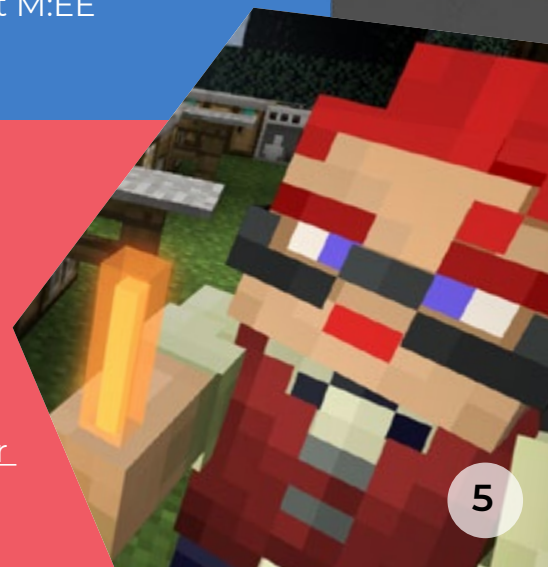
Did you know there is a course you can do anytime, anywhere?



Tell your teacher about these great educator resources



Keen to collaborate, here are some instructions for your teacher to allow you to work in a group





EXPLORE, LEARN, C

Maybe you're an expert. Maybe you're just starting out. Maybe you're just starting out for just about everything in M:EE. started and go beyond.

EXPLORE

Get started with these tutorials

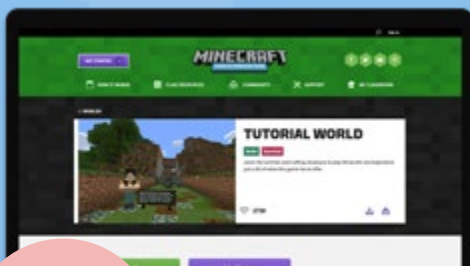


How to play
M:EE



Build your skills in
tutorial world

How to move in Minecraft



Getting started with
tutorial world



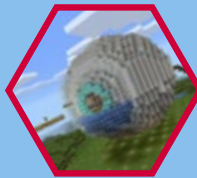
M:EE movement
tutorial

Using an
iPad?

Read this
resource
– touch controls
for M:EE



CREATE, SHARE!

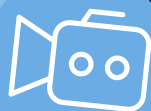


You're a beginner. Whatever you need, there's a tutorial
Below are links to videos and other resources to get you

Interact with your world



Interact with buttons,
levers, doors



Minecraft keyboard
& mouse controls

Explore the power of code in M:EE



Graphical coding
with blocks



Coding with
Python



2020 Hour of
Code challenge

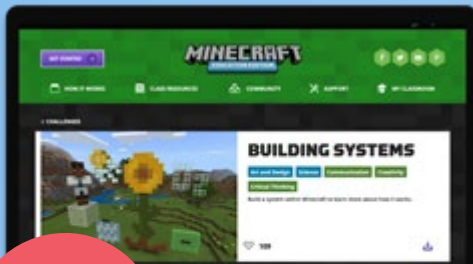
LEARN



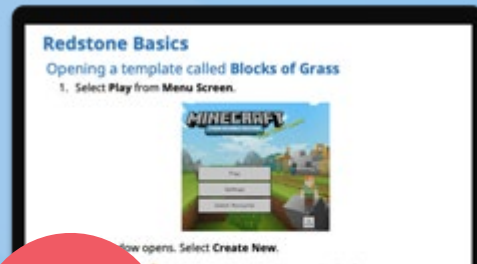
Connecting and electrifying with Redstone

Redstone powers M:EE – this in-game resource works a bit like an electrical circuit and its potential is boundless! Making smaller things with Redstone can be fairly simple, however more complex constructions require more advanced programming skills.

CREATE

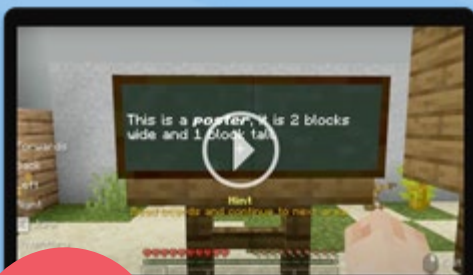


Take a Redstone challenge - build a system

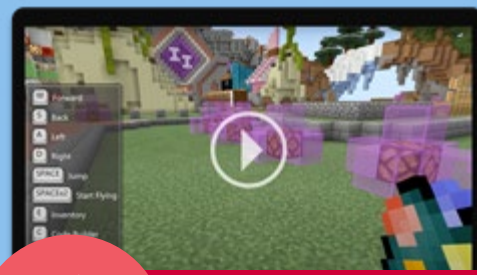


Learn more about Redstone basics

Creating and sharing information and ideas in M:EE







M:EE boards, slates and posters



Let your NPC deliver your message

Are you ready?

Decision time – are you ready to share?




-  [Refresh your screen recording knowledge from issue 1!](#)
-  Watch the [Student Filmmaker](#) for lots of tips
-  Do a sound check – don't forget to turn your mic on
-  Share the best bits of the video - what can you trim or edit out?

Capture and share



Camera, portfolio and book and quill

Learn how to screen record your design using the tools outlined in Module 1 of the Student Filmmaker!

-  PowerPoint on Windows 10
-  Quicktime on Mac
-  Screen Recorder on iPad



Module 1 of the Student Filmmaker


SHARE



LEARN FROM DESIGN EXPERTS

Why not reach out to one of these people in your local community to learn more and test your ideas.

ARCHITECTS




Architects design the plans for structures which may be built in public spaces. They not only design and plan the buildings but oversee the construction. They often consider the needs of the community and of organisations including relevant government bodies such as the local council or state government and urban planners.

URBAN PLANNERS



Sometimes known as town planners, urban planners think about how new regions or community spaces will work in the real world. They consider things like traffic flow and transportation and might work with architects on new building structures in the area. They work out the logistics for water, sanitation (waste management) and communications. They think about how people and places will fit into a new space (or a revamped old space) together.

LANDSCAPE DESIGNERS



Landscape designers plan how the natural and built environments fit together. They also consider the environmental effects when planting native flowers and gardens and what will survive living next to heavy traffic. Perhaps they will plant windbreaks or consider what gardens might thrive in new areas. They also consider how humans might interact with these natural spaces and what the benefits are to both people and plants.