

Name

Date:

How to guide: Creating a prototype using Minecraft

Follow this step-by-step guide to use Minecraft to create your prototype.

Step 1: Prepare your workspace

1. Log in to Minecraft: Use your school or personal account to access Minecraft. If you're using Minecraft: Education Edition, make sure your teacher has set up the server or world.
2. Choose your world: Create a new world or use an existing one. Select "Creative mode" to have unlimited resources and the ability to fly.
3. Set your workspace: Find a flat, open area in your world to start building. This will be your prototype workspace.

Step 2: Plan your prototype

Before you start building, think about your idea:

- What problem are you solving?
- What features does your prototype need to show?
- How can you make it visually clear in Minecraft?

Sketch your idea on paper or discuss with your team before diving into Minecraft.

Step 3: Start building

1. Gather materials: In Creative Mode, you can access any block or material from your inventory. Choose blocks that best represent the materials or features of your prototype (e.g., glass for windows, stone for structures).
2. Build the foundation: Start by creating the basic structure of your prototype. Keep it simple and focus on the most important features of your idea.
3. Add details: Use blocks, signs, and other Minecraft elements to add detail to your prototype. For example:
 - Use redstone components to add movement or functionality (e.g., levers, buttons, or pistons).
 - Place signs to label different parts of your prototype or explain how it works.
 - Use different colours and textures to make your prototype visually appealing.

Step 4: Test and improve

1. Walk through your prototype: Fly or walk around your creation to see if it represents your idea effectively.
2. Make adjustments: Fix any parts that don't work as planned or add features to improve your prototype. Remember, prototyping is about trying and improving!

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Step 5: Document your work

1. Take screenshots: Capture multiple angles of your prototype by pressing the screenshot button on your device. These can be used in your presentation.
2. Record a tour (Optional): If your prototype is interactive, record a short video tour to explain how it works.

Step 6: Present your prototype

1. Show your prototype: Share your Minecraft world with your teacher or classmates. If possible, invite others to join your Minecraft world to explore your prototype.
2. Explain your idea: Describe the problem your prototype solves, how it works, and why it's an innovative solution.

Tips for success

- Stay focused: Stick to the key features of your idea. Don't get distracted building unrelated things.
- Be creative: Use Minecraft's wide range of materials and tools to make your prototype stand out.