

Objective

By the end of this lesson, you will be able to understand the basics of Robotics and use Minecraft to create simple machines.

Materials and Prep

- Computer with Minecraft installed
- Internet connection for accessing Robotics videos
- Paper and colored pencils for drawing ideas
- Enthusiasm and curiosity!

No prior knowledge is required, just come ready to learn and have fun!

Activities

- **Robotic Exploration:** Watch a short video about robots, discuss different types of robots, and imagine what kind of robot you would like to create.
- **Minecraft Machine Building:** Log into Minecraft and use blocks to create a simple machine like a lever or a pulley. See how it functions within the game.
- **Design and Draw:** Draw a blueprint of a robot you would like to build in Minecraft. Think about its features and how it can help in the game.
- **Robot Dance Party:** Have a dance break and program a robot dance routine in Minecraft using movement commands.

Talking Points

- Robots are machines that can do tasks on their own. They can be big like cars or small like toys. Remember, robots are like our helpers!
- When we play Minecraft, we can use our creativity to build amazing things. Today, we will build machines in Minecraft that can help us do tasks in the game.
- Just like how we follow instructions in a recipe to bake cookies, we can give instructions to robots in Minecraft to make them move and do cool things!
- Imagine if you had a robot friend in Minecraft. What would it look like? What special abilities would it have? Let's draw and design our dream Minecraft robot!