

Objective

By the end of this lesson, you will be able to understand the basics of Redstone in Minecraft and apply it to create simple contraptions.

Materials and Prep

- A computer or tablet with Minecraft installed
- A Minecraft account
- Basic knowledge of how to play Minecraft

Activities

- Activity 1: Redstone Basics

In this activity, you will learn the basics of Redstone. Start by opening Minecraft and creating a new world. Find a flat area to build on and gather some Redstone dust. Experiment with placing and breaking Redstone dust to see how it behaves. Try connecting Redstone dust to different objects like doors or lamps to see what happens.

- Activity 2: Redstone Circuits

In this activity, you will learn how to create simple Redstone circuits. Start by building a lever and connecting it to a Redstone lamp. Observe how flipping the lever turns the lamp on and off. Then, try connecting multiple Redstone lamps in a row and experiment with different combinations of levers and lamps.

- Activity 3: Redstone Contraptions

In this activity, you will use your knowledge of Redstone to create simple contraptions. Choose an idea for a contraption, such as a hidden door or a trap. Plan out your contraption by sketching it on paper. Then, build it using Redstone and other blocks in Minecraft. Test and refine your contraption until it works as intended.

Talking Points

- Redstone is a special material in Minecraft that allows you to create electrical circuits.
- When you place Redstone dust on the ground, it creates a line of power.
- Redstone power can travel through certain blocks, like stone or dirt, but not through others, like glass or water.
- You can connect Redstone dust to objects like doors, lamps, or pistons to make them interact with Redstone power.
- A lever is a simple Redstone component that can turn Redstone power on or off.
- Redstone lamps are a type of block that can be powered by Redstone and emit light when turned on.
- Redstone circuits are created by connecting Redstone components in different ways to control the flow of Redstone power.
- Experiment with different combinations of Redstone components to see what effects you can create.
- Redstone contraptions are complex structures made using Redstone to perform specific tasks, like

opening a hidden door or activating a trap.

- Plan your contraption carefully before building it in Minecraft to make sure it works as intended.