

# Lego Challenge: Ultimate Playground

## Your Challenge!

Modern playgrounds often have recreational equipment such as the seesaw, merry-go-round, swingset, slide, jungle gym, chin-up bars, sandbox, spring rider, trapeze rings, playhouses, and mazes, many of which help children develop physical coordination, strength, and flexibility, as well as providing recreation. Design the ultimate playground using simple machines!



A playground, playpark, or play area is a place specifically designed to enable children to play there. It is typically outdoors. While a playground is usually designed for children, some target other age groups or people with disabilities.

## Engineering Goals:

- Learn about the different simple machines:
- Apply this knowledge to design awesome playgrounds

## Reflection Questions

What should I do first?

Is something confusing me?

Could I explain this to someone else?

Where can I look for help?

How can I do it better?

## Examples of things in a playground

A seesaw is a long, narrow board supported by a single pivot point, most commonly located at the midpoint between both ends; as one end goes up, the other goes down. These are most commonly found at parks and school playgrounds.

A playground roundabout is a flat disk, frequently, with bars on it that act as both hand-holds and something to lean against while riding. The disk can be made to spin by pushing or pulling on its handle

On playgrounds, several swings are often suspended from the same metal or wooden frame, known as a swing set, allowing more than one child to play at a time.

Playground slides are found in parks, schools, playgrounds and backyards. The slide is an example of the simple machine known as the inclined plane, which makes moving objects up and down easier