



Roller Coaster Physics

Sixth Grade - NGSS MS-PS3-2, MS-PS3-5
Materials and Additional Resources



Materials

- Paper plates
- Paper towel tubes
- Toilet paper tubes
- Tape
- Straws
- Marble



Engineering Design Process

[Identify, Brainstorm, Prototype, Test, Iterate, Share - Engineering Design Process](#)



Non-Fiction Reading (Newsela is a free platform)

[How Roller Coasters Work](#)

[Designing Roller Coasters for Thrills and Safety](#)



Arts and Crafts

[Roller Coaster Names](#)



Videos

[Why Roller Coasters are Awesome](#)

[Roller Coaster Forces: Explained](#)

[What is Kinetic and Potential Energy?](#)



Teacher Resources

[Physics of Roller Coasters - Lesson](#)

[Roller coaster Facts for Kids](#)

[Science Facts About Roller Coasters for Kids](#)

**A note about YouTube videos - The listed videos have been previewed, however individual teachers should also preview to ensure content is appropriate for their students.*