AMUSEMENT PARK CHALLENGE



Make as many unique rides as possible!

Get **one point for each unique combination** of ride type and energy source (see page 2).

Make a ride, get a point, then transform it into a new one. **Get the most points to win.**



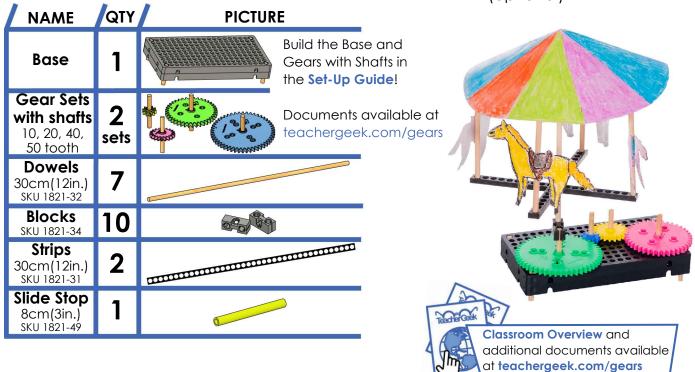
COMPONENTS

TeacherGeek Parts:

The maximum number of parts that can be used on any single design.

Materials You Supply:

- Rubber Bands
- Recycled Materials (optional)



GEARS TINKER SET

AMUSEMENT PARK CHALLENGE



RIDE TYPES

Can you make them all?





Riders move in a circular motion.



Riders are thrown through the air!

Riders move from ground-level to a higher elevation.



Riders move in a

straight line.

ENERGY SOURCES

How can you make your ride move?

Potential Energy: Potential Energy is stored energy that can make objects move. You can use two types:



Stretching rubber bands stores energy as **Elastic Potential Energy**.



Lifting objects so they can fall, slide, or roll stores energy as **Gravitational Potential Energy**.



GEARS TINKER SET

Riders move up and down.



Riders sway back and forth.

Isn't it 2 types?

It spins. It's tall. But you can only choose one ride type per design.



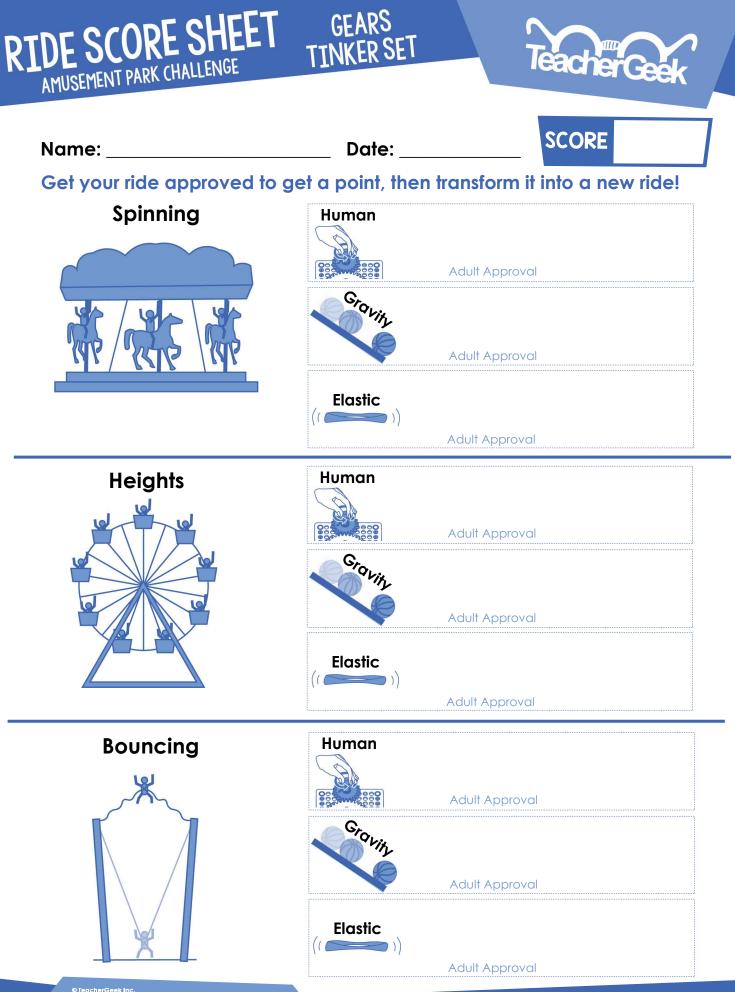
Human Energy: Human Energy is energy that you are adding to your contraption.



You can only use Human Energy to turn an input gear. You can't use human energy in any other way.



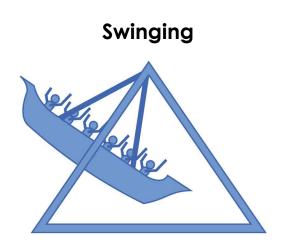
Human Energy does not include energy transferred to Potential Energy.



© TeacherGeek Inc. Permission granted for editing and printing to schools and libraries. Components from teachergeek.com. Adult supervision required for children under 12.

RIDE SCORE SHEET AMUSEMENT PARK CHALLENGE





Human	Adult Approval
Gravity	Adult Approval
Elastic (())	Adult Approval

GEARS TINKER SET

Launching



Human	
	Adult Approval
Gravity	
- my	
	Adult Approval
Elastic	
$((\bigcirc))$	
	Adult Approval





Human	
	Adult Approval
Gravity	
~	Adult Approval
Elastic	
, /	Adult Approval

© TeacherGeek Inc. Permission granted for editing and printing to schools and libr Components from teachergeek.com. Adult supervision required for children under 12.