



Explore your world

SCIENCE

Engineers

2 GO

Grades 3-5

Pierce County Library System

Activity

Engineers use math and science to think up and create many things in our world. From space ships, highways and computers, to bicycles and toys. Engineers work hard to solve difficult problems and also make things that are fun. Many things engineers make have different parts that effect each other, such as dominos falling into each other or a switch making a light turn on...one way to experience this is to make a complex marble run.

What you need:

- Marble, ping pong ball or bouncy ball
- Building materials such as cardboard, tape, glue, cups, string, paper plates, paper towel rolls... things you can find at home

Try this:

Build a marble run in which a ball goes on a journey up, down, sideways or in circles for more than 30 seconds.

Here are some examples:



Local Connection

Look around! When you are at home, school, the library or a store, can you figure out how things around you are made?

Field Notebook



Add something to the field notebook!

For example: Draw your marble run design and write your ideas to improve it.

Optional: Post a photo or video of your achievement to Facebook or Instagram and use #science2go. See what other Science to Go creators have made and achieved!

Leave feedback at sciencetogo.pcls.us

Keep this sheet. Collect them all!



Check out all the Science-to-Go backpacks for more fun!

PRESCHOOL Green backpacks

- Animal Babies
- Backyard Animals
- Building
- Cars and Trucks
- Colors
- Counting
- Fall
- Food
- Gardens
- My Body
- Nighttime
- Patterns
- Rain
- Seashore
- Shadows
- Shapes
- Simple Machines
- Space
- Spring
- Summer
- Tools
- Winter

GRADES K-2 Blue backpacks

- Animal Homes
- Birds
- Bridges
- Bubbles
- Dinosaurs
- Ecosystems
- Floating
- Frogs
- Flight
- Insects
- Invention
- Light
- Measurement
- Migration
- Moon & Stars
- Motion
- Ocean Animals
- Plants
- Seasons
- Silly Math
- Sound

GRADES 3-5 Red backpacks

- Animal Survival
- Architecture
- Climate Change
- Electricity
- Engineers
- Forest
- Human Body
- Kitchen Science
- Life Cycles
- Ocean
- Outdoors
- Outer Space
- Real Life Math
- Rocks
- Skyscrapers
- Volcanoes
- Water
- Weather

Visit sciencetogo.pcls.us to give feedback and to access more science resources.