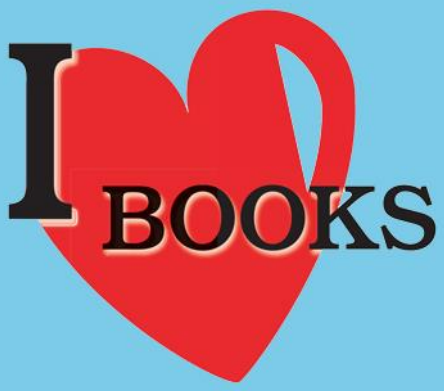


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Opening extract from

Rosie Revere's Big Project Book for Bold Engineers

Written by

Andrea Beaty

Illustrated by

David Roberts

Published by

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Three cheers for the engineer,
creative and so smart.
Finds a problem. Fixes it,
with science, math, and art!

The illustrations in this book were made with watercolors, pens, and ink on Arches paper. For some pieces, pencil and graph paper were also employed.

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World's Boldest Engineer

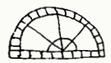
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(your name)

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Draw a picture of yourself here!



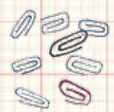


Rosie collects all kinds of things for her inventions.
Here are some things she finds useful.
She calls these items her **"ENGINEER'S TREASURE."**
You might find them useful, too.

Rubber bands



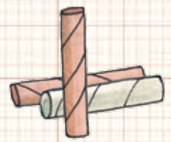
Paper clips



Toilet paper rolls



Paper towel rolls



Broken toys



Pencils



Glue



Brushes



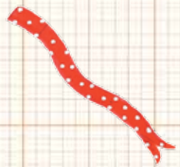
Ruler



Coffee cans



Ribbon



Scissors



Screws



Tennis balls



Paint



Paper cups



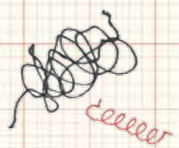
Paper plates



String



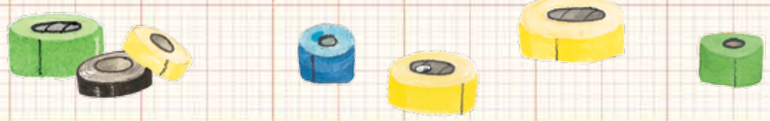
Wire



Books



Tape—There are lots of kinds of helpful tape, including: duct tape, packing tape, double-sided tape, Scotch tape, painter's tape, masking tape, and gaffer tape. Each has its own use.



Where can **you** find ENGINEER'S TREASURE?

There are many places you can find cool things to use in your inventions.

- RECYCLING: Cardboard boxes, broken toys, juice cans, milk jugs, plastic lids, and other things your family might otherwise throw away. Ask permission and make sure they're clean and safe to use.
- RUMMAGE SALES and THRIFT MARKETS are great places to find useful items inexpensively. Finding a new use for something old keeps it out of the landfill!
- SWAP treasure with your engineering friends.
- If you can't find a recycled thing to use, you might find something at a HARDWARE STORE or a FABRIC STORE.

AND BE CAREFUL WHEN WORKING WITH SHARP TOOLS OR BROKEN PIECES!
MAKE SURE AN ADULT IS ALWAYS NEARBY!

MORE ITEMS FROM AN ENGINEER'S TOOLBOX: (USE ONLY WITH AN ADULT'S PERMISSION)

Wrenches



Elbow pipe



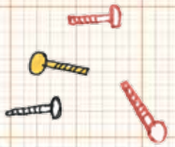
Screwdriver



Nuts



Bolts



Stapler



Wing nuts



Tape measure



Washers



Nails



Yarn



Pliers



Drill



Swiss Army knife



Triangle



KEEP YOUR ENGINEER'S TREASURE ORGANIZED!

Treasure is all around. But not everything is a treasure.
Choose items that are safe, clean, and useful.
A good collection has variety and is well organized.



Organizing your tools and treasure . . .

- keeps them in good shape, so they last longer.
- lets you find what you need when you need it.
- saves money because you don't have to replace things you already have.
- keeps your space free so you can make things.
- keeps your feet free of holes!

HERE ARE SOME TIPS:

- Decorate and label empty shoeboxes to store under your bed or on a shelf.
- Keep similar things together.
- Small, clean glass jars with lids make great containers for tiny parts like screws and bolts or supplies like rubber bands and string. Clear jars let you easily see what you have!
- A clear plastic shoe holder over the back of a door keeps things organized and easily viewed.
- Hang tools or spools of ribbon on hooks on a peg board from the hardware store.
- Magnetic strips from the hardware store or sewing store can hold metal scissors or other metal tools.
- An empty can makes a great holder for tools, pencils, and paint brushes. You can decorate the can. Watch out for sharp edges! Wrap it in decorative paper and ribbon.

Always be safe when you are making something. Protect your eyes with safety glasses.

An engineer is always careful!

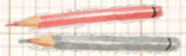


Don't forget these!



Metric System

Engineers use the metric system of measurement, so that is what Rosie uses here. But we've included standard measurements throughout too.



What special things will you add to your Engineer's Treasure?

SUPER-DUPER ENGINEERING CHALLENGE

Sometimes engineers design new things,
but often what they do is improve existing things.

Great-Great-Aunt Rose walks with a cane. She also loves to make things and fix things. Can you adapt her cane to carry some of her tools?

Draw your adaptations on her cane on the next page and use the pieces of "paper" to take notes on what each adaptation is for.















1

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6