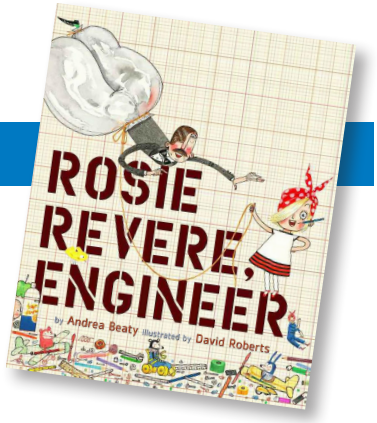
Rosie Revere, Engineer



A RIF GUIDE FOR PARENTS AND FAMILIES

Themes: Engineering, Design, Creativity, Careers

Book Brief: Rosie Revere loves to build things, but her creations don't always work on the first try—and that's okay!

Author:
Andrea Beaty

Illustrator:
David Roberts

TIME TO READ!

Before reading, build background: Does your child know what an engineer does? Explain that an engineer solves problems and builds things. What does your child like to build?

While reading, make connections: How do Rosie's uncle and great-great-aunt react to her machines?

How does Rosie feel? How would you feel?

After reading, ask questions:

- What did Rosie and her classmates do when they "failed" at something?
- What does "perfect failure" mean?
- How can failing be a good thing?
- Have you ever failed?

RELATED ACTIVITIES

PAPER POWER

Materials: newspaper, tape

Using only newspaper and tape, help your child build the tallest structure you can that stands up on its own. First, *brainstorm,* or think about, what to build and how. Next, build it. If your structure falls over, think about how to fix it and try again. Keep trying—the ceiling's the limit! For other fun challenges and videos of kid engineers in action, visit **www.pbskids.org/designsquad.**

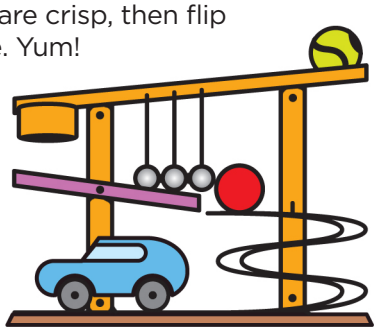
(LUMPY) RUSSIAN PANCAKES

In English, they say: "If at first you don't succeed, try, try again." In Russian, they say: "The first pancake is always lumpy."

Ingredients: 2 eggs, 1 T. sugar, 1/3 t. salt, 1/2 cup flour, 2 1/2 cups milk, 1/2 t. baking soda, butter or oil

Mix eggs, sugar, salt, and baking soda in a bowl. Slowly add milk and flour; mix well. Lightly butter or oil a frying pan and cook over medium heat. Pour about 2 T. of batter into pan; tilt pan to spread batter evenly. Cook until edges are crisp, then flip and cook another minute. Yum!

RUBE GOLDBERG



Materials: anything available

A Rube Goldberg machine does a simple task in a complicated way. (See example at: **www.youtube.com/watch?v=cKb9fB8kHKI**.) Help your child build a machine that does one task, like knock over a cup or turn on a light. How complicated can you make your machine?

ADDITIONAL RESOURCES

OTHER BOOKS ABOUT PERFECT FAILURES

Beautiful Oops!, Barney Saltzberg (2010),
The Dot, Peter H. Reynolds (2004), ***Ish,*** Peter H. Reynolds (2003),
Perfect Square, Michael Hall (2011).

RIF Reading Is Fundamental