**AUTHOR:**

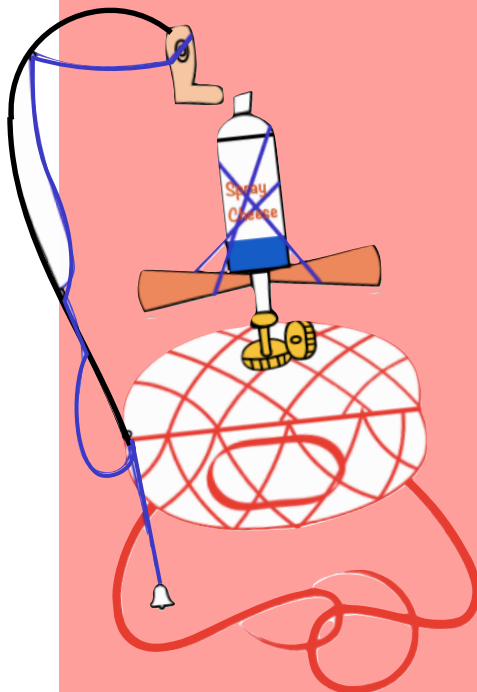
Andrea Beaty

Rosie Revere dreams to become a great engineer, however is fearful of what others think of her gizmos. With the help of a great-great-aunt she will get the confidence to show her gizmos.

Ages: 5 to 8 years

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Rosie Revere, Engineer

With a little inspiration Rosie can build endless gizmos, what will happen when Rosie has a perfect failure?

Math Connections:

Construction

Engineering

Measuring

Shapes

**Activities to Do Together:**

- Introduce what an engineer is and what their job is.
- Introduce construction and how to build. Discuss the steps to build an object: think of an idea, plan, design, and testing of the invention.
- Make or build something with the items you collected, like a collage, sculpture, model, or machine.
- Build a hat for a friend or family member that has a specific purpose. Are there other ways to build it?

Vocabulary for Building Math Concepts:

engineer, half, one

Extension Questions:

1. What did Rosie make her gizmos and gadgets out of?
2. Have you ever built something? How did you put the items together?
3. When the plane failed, what did Rosie do? What did her Great-Great-Aunt Rose do?
4. Design and build your own flying machine for Rosie's Great-Great-Aunt Rose. How would you build it? What materials would you use? How would Great-Great-Aunt Rose fly it?
5. Have you created something that didn't work how you expected? What did you do?
6. Why do you think it is important to have support while creating new inventions?

Early Math Project Resources:

[Paper Airplane Engineer](#) (English)

Paper Airplane Engineer_(Spanish)

[Paper Airplane Engineer Samples](#) (English)

Paper Airplane Engineer Samples (Spanish)

Online Resources:

[Rosie Copter Activity](#)

[Rosie Revere Rolling Robot](#)

Related Books: *The Most Magnificent Thing*
by Ashley Spires

