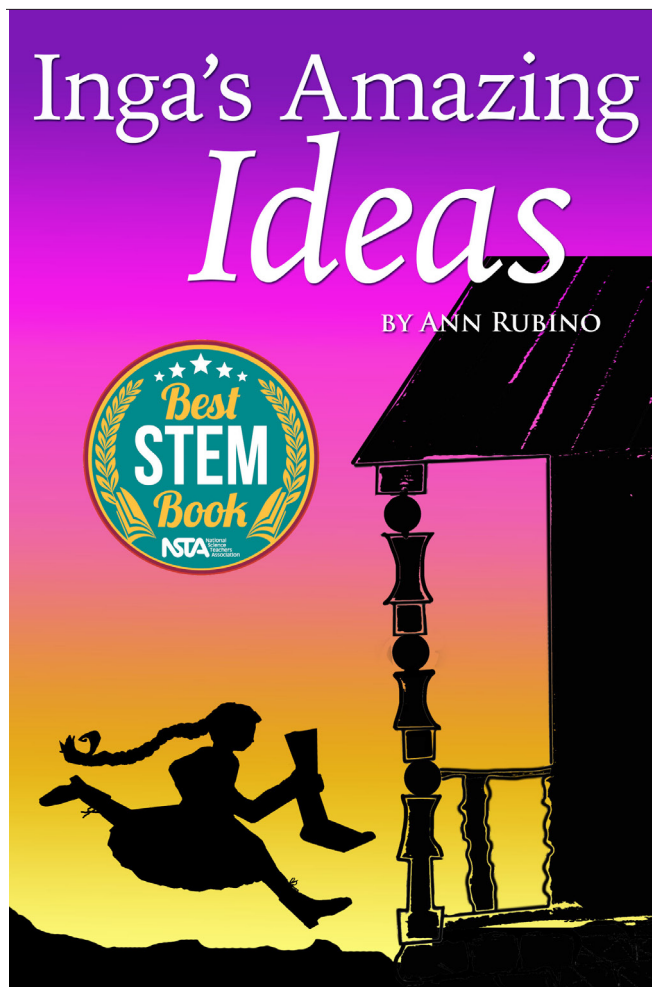


INGA'S AMAZING IDEAS

by Ann Rubino • Best STEM Book 2019

INTEGRATION IDEAS



Science Basics

- Simple machines, especially pulley systems
- Acceleration of gravity with rolling items
- Complex machines: peeler and cart (relate to earlier "Galileo" experiment)
- Force and motion experiences/inertia as applied
- Motion of joints
- Human body function in motion/ handicapped aids
- Problem-solving model

Historical Links

- Orphan Train as a solution to child homelessness in 1800's
- Treatment of handicapped in time period
- Relative prices for items/services in 1800s to current time
- Everyday life in small town America compared to current time
- Long-term effects of Civil War on wounded and technology
- Changing economy from hands-on manual labor to machinery-assisted
- Role of children as workers compared to present
- Supervision of children compared to present
- Importance of school then and now

A CURRICULAR BRIDGE

History:

American Post-Civil War

- Orphan Trains/Adoption
- Children on their own
- Making do with what you have
- Everyday life in small towns
- Effects of technology
- Westward movement
- Immigration patterns

Activities/Uses

- Writing prompts related to story
- Replicate similar machines
- Readers' theater
- imagining having to take care of yourself
- Web quests
- Telling part of story from various POV

Resources

- American Girl Stories
- Cobblestones magazines
- Dear America series
- Iowa Pathways on PBS
- NSTA.org