

# Feel the Force!

## A RIF GUIDE FOR COMMUNITY COORDINATORS

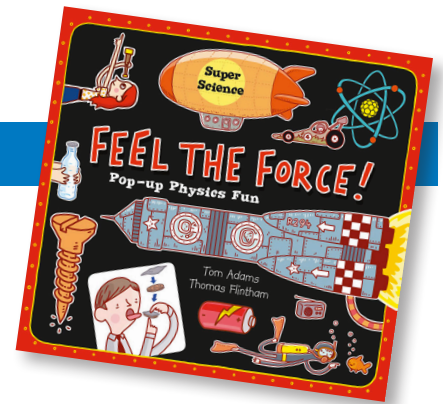
**Themes:** Physics

**Grade Level:** 3rd to 5th grade

**Book Brief:** This hands-on introduction to physics explains why things work the way they do.

**Author:**  
Tom Adams

**Illustrator:**  
Thomas Flintham



## TIME TO READ!

**Before reading:** Introduce this book in sections to the children; don't try to read it all at once. Let them explore the pop-ups and try out some of the suggested experiments. Discuss the term "physics" and what children think it means.

## RELATED ACTIVITIES

### RAMP IT...DOWN? (AGES 8-12)

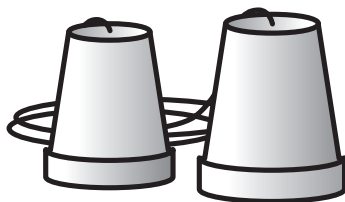
Materials: wood plank or stiff cardboard, toy cars, cotton balls, toothpicks, rubber bands, paper towels, craft sticks, yarn, straws

Here's a twist—the slowest car wins the race! Have children work alone or in teams to build a ramp where a car must actually make it to the bottom but as slowly as possible.

### WIRELESS PHONE (AGES 5-12)

Materials: paper cups, long string, 2 paper clips, pin

Discover how sound waves travel with this oldie but goodie. Punch a hole in the bottom of each cup. Tie a paper clip to each end of string. Insert the paper clips through the



holes and pull the string taut so each paper clip is flat against the inside bottom of the cup. In pairs, take turns talking into and listening into the cups. Can you hear your partner?

### MAGNET MASTERPIECES (AGES 5-12)

Materials: light cardboard, markers, scissors, magnetic tape

Let children draw a design on the cardboard and cut it out. Attach magnetic tape to the back of the cardboard, and voila! It's now a magnet. Test out different surfaces around the center to see where the magnet sticks. Make a list of what's magnetic and what's not.



## ADDITIONAL RESOURCES

### OTHER BOOKS ABOUT PHYSICS

*Can You Feel the Force?*, Richard Hammond (2010), *Physics: Why Matter Matters!*, Dan Green and Simon Basher (2010), *Issac Newton and Physics for Kids*, Kerrie Logan Hollihan (2009).

### TECHNOLOGY LINK FOR KIDS

[www.rif.org/kids](http://www.rif.org/kids)

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