STOP and GO, FAST and SLOW
Moving Objects in Different Ways
Teaching Focus:
Phonemic Awareness:
Find the words pull and ball in the book. How are the two words alike? How are they different?

Tips for Reading this Book with Children:

1. Read the title.

   *Predictions – after reading the title have students make predictions about the book.*

2. Take a book walk:

   *Talk about the pictures in the book. Use the content words from the book as you take the picture walk.*

   *Have children find one or two words they know as they do a picture walk.*

3. Have children find words they recognize in the text.

4. Have students read the remaining text aloud.

5. Strategy Talk – use to assist children while reading:
   - Get your mouth ready
   - Look at the picture
   - Think…does it make sense
   - Think…does it look right
   - Think…does it sound right
   - Chunk it – by looking for a part you know

6. Read it again.

7. Complete the activities at the end of the book.
Stop And Go, Fast And Slow:

Moving Objects in Different Ways

by Buffy Silverman

Science Content Editor: Kristi Lew

www.rourkeclassroom.com
Science content editor: Kristi Lew
A former high school teacher with a background in biochemistry and more than 10 years of experience in cytogenetic laboratories, Kristi Lew specializes in taking complex scientific information and making it fun and interesting for scientists and non-scientists alike. She is the author of more than 20 science books for children and teachers.

© 2012 Rourke Publishing LLC

All rights reserved. No part of this book may be reproduced or utilized in any form or by any means, electronic or mechanical including photocopying, recording, or by any information storage and retrieval system without permission in writing from the publisher.

www.rourkeclassroom.com

Photo credits: Cover © 3dart, Cover logo frog © Eric Pohl, test tube © Sergey Lazarev; Page 3 © Zurijeta; Page 5 © Andrew Lundquist; Page 7 © Jane September; Page 9 © Jane September; Page 11 © nikkytok; Page 13 © Blue Door Publishing; Page 15 © Blue Door Publishing; Page 17 © Furchin Page 19 © Nick Stubbs; Page 20 © James Blinn; Page 22 © Andrew Lundquist, Jane September, Blue Door Publishing Page 23 © Furchin, nikkytok, Blue Door Publishing

Editor: Kelli Hicks

Library of Congress Cataloging-in-Publication Data

Silverman, Buffy.
Stop and go, fast and slow : moving objects in different ways / Buffy Silverman.
   p. cm. -- (My science library)
ISBN 978-1-61741-727-6 (Hard cover)
1. Force and energy--Juvenile literature. I. Title.
QC73.4.S545 2012
531’.113--dc22
2011003864

Rourke Publishing
Printed in China,
   Power Printing Company Ltd
   Guangdong Province
042011
042011LP
You make things move with a **push** or **pull**. Push a toy car. The car zooms.
Pull a wagon. It rolls to the park.
Push a swing hard. Your energy makes the swing go high.
Push it soft. Your energy makes it swing low.
Push a bowling ball. It rolls away in a straight line.
Pull up marbles. They **zigzag** down.
Push on a **seesaw**. You go up high. Your friend goes down low.
Push a merry-go-round. It turns around and around. It spins fast.
A merry-go-round slows. Then it stops.
What else can you move?
1. Can you name two ways to make things move?
2. When one side of a seesaw goes up. What happens to the other side?
3. How does a merry-go-round move?
**pull** (PUL): To pull is to move something towards you.

**push** (PUSH): To push is to move something away from you by pressing against it.

**seesaw** (SEE-saw): A seesaw is a long board that goes up and down. A person sits on each end of the board.
**spins** (SPINZ): To spin is to turn quickly around and around.

**straight** (STRAYT): Something that moves straight goes in one direction without turning.

**zigzag** (ZIG-zag): Something that moves zigzag makes short, sharp turns.
Index

down 12, 14  
fast 16
slows 18

straight 10
up 12, 14
zigzag 12

Websites
http://www.bbc.co.uk/schools/scienceclips/ages/5_6/pushes_pulls_fs.shtml
http://www.bbc.co.uk/schools/ks2bitesize/science/physical_processes/forces_action/play.shtml
http://pbskids.org/curiousgeorge/games/pogo_gogo/pogo_gogo.html

About the Author
Buffy Silverman looks up, down, and all around for animals and wildflowers. She writes about nature and science from her home in Michigan.
Comprehension & Extension:

• Summarize:
  What are some things you can pull?
  What are some things you can push?

• Text to Self Connection:
  Have you ever been on a merry-go-round?
  What did it feel like?
  How is it different than being on a seesaw?
  What do you like to play on at the park?

• Extension:
  Find opposite words in the book (push, pull, up, down) and choose two of them. Take a piece of paper and divide it in half. Write one of the opposite words on each half. Draw pictures to go with your words.

Sight Words:
  down
  the
  up
  you
  your

Vocabulary Check:
  Use glossary words in a sentence
Have you ever wondered about the science all around us? Plants grow and change, the Sun rises to warm the Earth, and matter changes from one form to another. Investigate Life, Physical, Earth, and Technology science topics with Rourke’s *My Science Library*. This library explores NSTA science standards with engaging text and colorful images to support readers from kindergarten to third grade. Are you ready to investigate?

**Books in My Science Library:**

- Apple Trees and the Seasons
- Day and Night
- How Do Plants Grow?
- I Use Science Tools
- I Use Simple Machines
- Our Sun Brings Life
- Run, Swim, Fly
- Science Safety Rules
- Solid or Liquid?
- Stop and Go, Fast and Slow: Moving Objects in Different Ways
- What Is It Made Of?
- Who Do I Look Like? A Book about Animal Babies