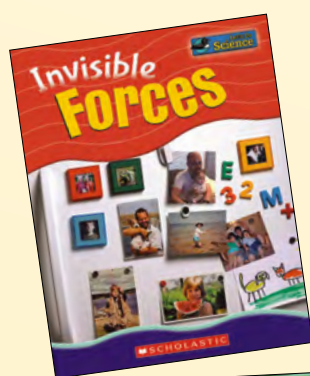


Welcome to the *Invisible Forces* Unit

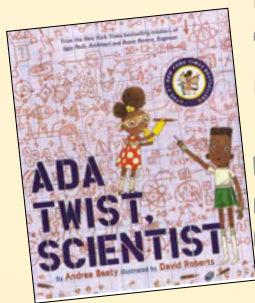
In this unit, students develop their understanding of invisible forces—static electricity and magnetism. Multiple program components will engage students and support learning of the specific science concepts.



Student Magazine

The Student Magazine will support students' exploration of invisible forces. The bright, colourful photographs, detailed illustrations, and different text features will engage students and give them multiple opportunities to explore a variety of concepts. A digital version of the magazine is available on the Teacher's Website to be used with an Interactive Whiteboard.





Science Read Alouds

Two Read Aloud texts allow you to introduce and engage students with science concepts. *The Golden Goose* (digital picture book version) by Barbara Reid is a wonderful introduction to the concept of invisible forces—forces which can't be seen but whose effects are all too clear. This picture book is available in digital format only and can be found on the Teacher's Website.

Ada Twist, Scientist by Andrea Beaty and David Roberts uses delightful rhyming text to reinforce the importance of asking questions in scientific inquiry and problem solving.



Anchor Video

The Anchor Video: *Invisible Forces*, found on the Teacher's Website, introduces students to essential questions about the invisible forces of static electricity and magnetism. The video gives a number of examples to activate students' thinking and to promote questions.

Posters

Two classroom posters—*What Is the Inquiry Process?* and *What Is the Design Process?*—will support students as they follow the steps for guided and open inquiries and learn to use the design process to create a solution to a problem.



Interactive Whiteboard Activities

There are 9 interactive activities for the Interactive Whiteboard (IWB) found on the Teacher's Website. These activities provide students with a variety of hands-on learning experiences and the opportunity to apply learning in a supported environment. The IWB Activities are tied to the teaching plans to ensure that the learning is done in context.



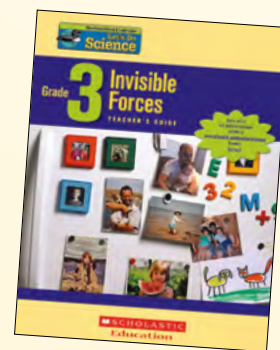


Science Library

The Science Library provides a collection of colourful and engaging non-fiction and fiction texts at a variety of reading levels. These texts support students as they explore various science concepts and skills. See the *Science Library Guide* in the Teacher's Guide Binder or online for general suggestions for using the Science Library titles along with summaries, ties to the curriculum, and suggested reading experiences (e.g., Independent Reading and Shared Reading).

Teacher's Guide

This guide provides detailed suggestions for using all of the program components including the Student Magazine, Anchor Video, reproducible Blackline Masters (BLMs), and IWB Activities with your students. Visual cues such as book covers, thumbnail images, and icons highlight the use of each component along with tools such as Science Folders and Journals, the Word Wall, and I Wonder Wall. Strategies and tools you need to assess students' learning, such as rubrics and checklists, are also included. Embedded within the teaching plans are connections to Guided and Shared texts from *Literacy Place for the Early Years*, Grade 3 that relate to the concepts explored in *Invisible Forces*.



Teacher's Website

In addition to the Student Magazine, Anchor Video, and IWB Activities mentioned above, this website provides a digital copy of the Teacher's Guide for this unit along with access to an image bank containing the variety of photographic images found in the Student Magazine and IWB Activities. These images may be used by teachers to create new IWB Activities or for students to incorporate into presentations. Find the Teacher's Website at

scholastic.ca/education/nlscience

Password: Sci1nL2

