

Welcome to the *Properties of Objects and Materials* Unit

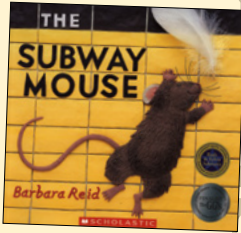
In this unit, students develop their understanding of familiar objects (including the purposes for which these objects are used, the materials from which they are made, and methods for joining materials) through a variety of explorations and investigations. Students identify a problem and use the knowledge gained to construct a useful object to solve the problem.

Science Cards

This collection of 10 Science Cards will support students' exploration of the properties of objects and materials with each large-format card focusing on a different concept. The bright, colourful photographs and detailed illustration will engage students and give them multiple opportunities to explore a variety of concepts. These stand-alone cards can also be used at centres to stimulate student explorations. Also, digital versions of these cards are available on the Teacher's Website to be used with an Interactive Whiteboard.

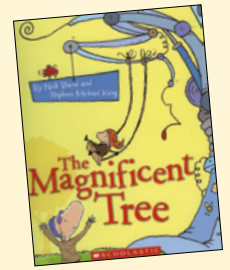


Science Read Alouds



Two Read Aloud texts allow you to introduce and engage students with science concepts. *The Subway Mouse* by Barbara Reid uses engaging Plasticine art which incorporates a variety of found objects. This book is used to invite students to observe and describe objects based on similarities and differences. This includes exploring the purpose for the objects—where they're found, how they're used, and what materials they're made from.

The Magnificent Tree by Nick Bland and Stephen Michael King invites students to compare two different solutions to a problem—how to create a tree so the birds will stay. This book acts as an engaging introduction to the design process and illustrates how different solutions follow the same process to completion.



Anchor Video



The Anchor Video: *Properties of Objects and Materials*, found on the Teacher's Website, introduces students to essential questions about objects and the materials they're made from. Students are invited to identify materials, to observe objects and identify which materials are used to make them, and to consider how the material or materials affect the usability of the objects. The video gives a number of examples to activate students' thinking and to promote questions.

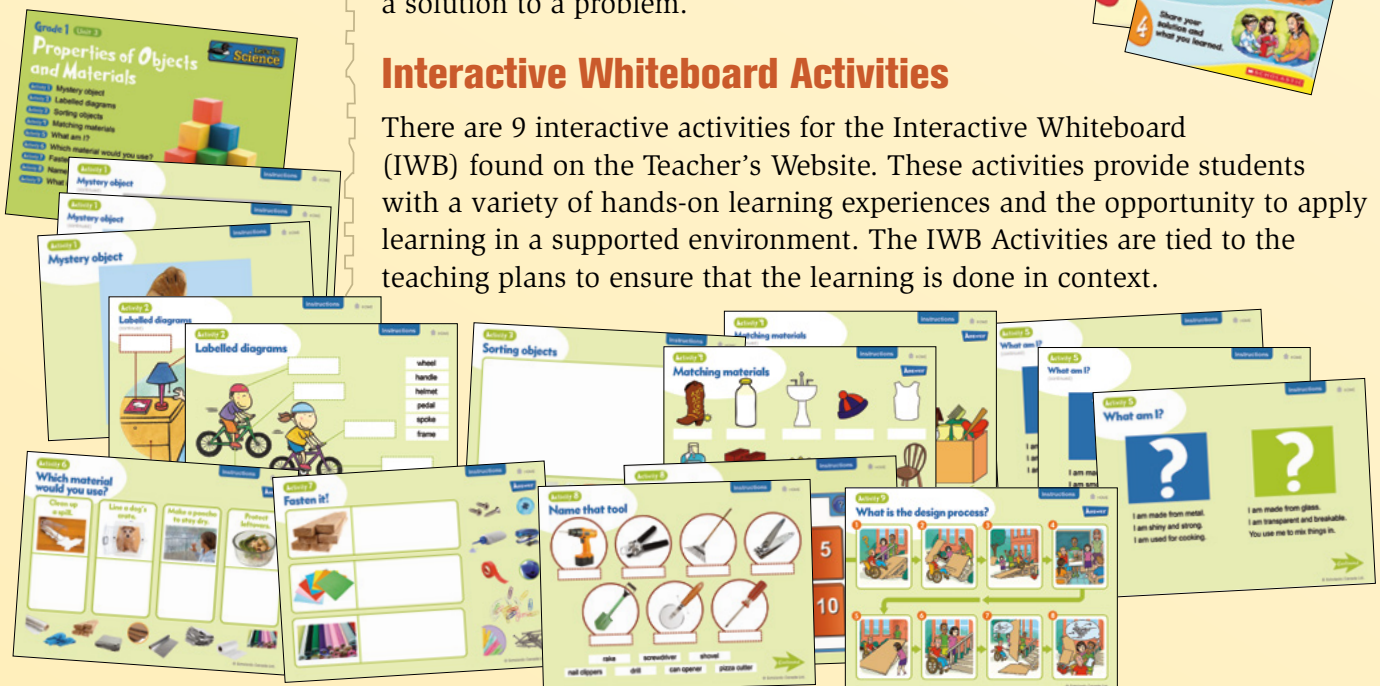
Posters

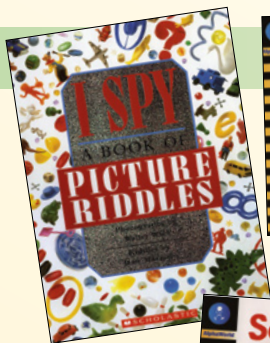
Two classroom posters—*What Is the Inquiry Process?* and *What Is the Design Process?*—will support students as they follow the steps for guided and open inquiries and learn to use the design process to create a solution to a problem.



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.





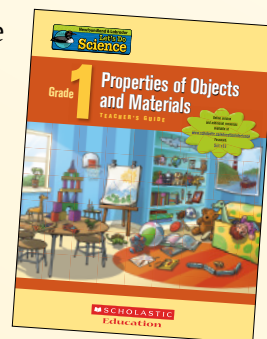
Science Library

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 brief summaries, science connections, and suggested reading approaches (e.g., Independent Reading and Read Aloud).

Teacher's Guide

This guide provides detailed suggestions for using all of the components including the Science Cards, 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 the 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, Shared, and Read Aloud texts from *Literacy Place for the Early Years*, Grade 1 that relate to the concepts explored in *Properties of Objects and Materials*.



Teacher's Website

In addition to the Science Cards, Anchor Video, and IWB Activities mentioned above, the Teacher's 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 on the Science Cards and IWB Activities. These images may be used for 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

