

STATE STANDARDS SCIENCE+MATH+TECHNOLOGY PROGRAM

EXPLORING CHANGES IN OUR WORLD
GRADE 3

EXPLORING CHANGES

Aardema, Verna

Bringing The Rain To Kapiti Plain

New York: Dial Press, 1981

Bellamy, David

How Green Are You?

New York, NY: Crown Books for Young Readers, 1991

Science Area: Life

Students develop plans to conserve energy resources around their home.

They share their plan with a partner.

Bendick, Jeanne

Solids, Liquids, and Gases

New York: Watts, 1974

72p.; ill.; 22 cm.

Summary: Introduces through simple experiments the basic properties of solids, liquids, and gases.

Carle, Eric

Papa, Please Get The Moon For Me

Saxonville, MA Picture Book Studio, 1991

Science Area: Earth and space

Summary: Students make papier-mache models of the phases of the moon. They can later be displayed in the classroom.

Peters, W.

Water's Way

Recommended by the State Education Department in the "Early Elementary Resource Guide To Integrated Learning"

Reidel, Marlene

From Ice To Rain

Minneapolis: Carolrhoda Books, 1981

24p.; col. ill.; 16x20 cm

Summary: Describes the cycle in which ice on the pond melts into water which in turn evaporates into water vapor, which collects into clouds, which produce rain and snow. (A start to finish book)

ELECTRICITY

Ardley, Neil

The Science Book of Electricity

Harcourt, Brace, Jovanovich, 1991

Recommended by the State Education Department in the "Focus on Science" An Elementary Teacher's Guide

Summary: This text contains simple experiments demonstrating basic principles of electricity. Grades 3-4

Bains, Rae

Discovering Electricity

Troll, 1982

Recommended by the State Education Department in the "Focus on Science" An Elementary Teacher's Guide. Grade 2-4

Berger, Melvin

Switch On, Switch Off

Harper Collins, 1989

Recommended by the State Education Department in the "Focus on Science" An Elementary Teacher's Guide. Grades K-3

Brandt, Keith

Electricity

Troll, 1985 Grades 3-6

Recommended by the State Education Department in the "Focus on Science" An Elementary Teacher's Guide. Grades 3-6

Brown, Marc

Brown, Laurene Krasny

The Bionic Bunny Show

Summary: Through the use of costumes, makeup, sets and special effects, television transforms an ordinary rabbit into a bionic superhero. The "play within a play" format allows a behind-the-scenes look at the world of illusion, as well as a glimpse at the rabbit's real life.

Chapman, Philip

Revised by David Crawley

Electricity

Osborne, 1991 Part of the **Young Scientist Series**

Recommended by the State Education Department in the "Focus on Science" An Elementary Teacher's Guide. All grades.

Challand, Helen

Experiments With Electricity

Children's Press, 1986

Recommended by the State Education Department in the "Focus on Science" An Elementary Teacher's Guide. Grades K-4

SOUND

Berger, Melvin

The Science of Music

New York, NY: Crowell Junior Books, 1989

Science Area: Physical

Divide the students into small groups. Students classify instruments into their own distinct categories. Other groups review the classification groups employed by a group and try to guess the criteria. Each group makes an oral report to the class.

Bove, Linda

Sesame Street Sign Language

ABC New York: Random House/Children's Television Workshop, 1985

Broekel, Ray

Sound Experiments

Emerville, CA: Children's Press, 1983

Science Area: Physical

Have students make their own model of an instrument. They work in small groups as a band.

Curriculum Association, North Billerica, MA, 1998

Sound All Around

Grades K-3

Osband, Gillian

The Pop-Up Book of Science Tricks

London, UK: Orbis Publishing Limited 1986

Science Area: Life, physical

Ask students to follow the step-by step procedures outlined in the book to make a working model of guitar. They experiment to study the vibration of sound and try some of the other sound tricks outlined in the book.

Peterson, Jeanne Whitehouse

I Have A Sister, My Sister Is Deaf

Summary: A young girl expresses much love for her younger deaf sister by the way she describes her many capabilities, as well as her limitations. Family life, recreation, and school are particularly emphasized as we see how a deaf child learns to communicate in a world of hearing people.

Seldon, Bernice

The Story of Annie Sullivan, Helen Keller's Teacher

New York, Dell, 1987

Thaler Mike

How Far Will A Rubber Band Stretch?

New York, NY Simon & Schuster 1990

Science Area: Physical

Ask students to make a model of their choice using found materials and elastic bands, but this time specify that the elastic bands must all be of one size - small, thick. or small thin. How does the size of the elastic band affect its performance?

Walpole, Brenda

Movement

New York, NY: Franklin Watts, 1987

Science Area: Physical

Ask students to gather materials that are similar to one of the activities in the book that captured their interest. They recreate the activity or if they prefer to challenge themselves, they devise an extension of one activity or plan one of their own making.

Walter, Mildred Pitts

Ty's One Man Band

New York: Scholastic, 1980

Summary: The study of sound as produced by primitive instruments as well as the human voice is essential to this story of the rural South.