



"Having a Ball with Chemistry"

Book Resources

National Chemistry Week - October 19 - 25, 2008



Below are selected websites for use in conjunction with NCW 2008 theme activities.

Levels: (**E**) Elementary (K-4), (**I**) Intermediate (6-8), (**HS**) High School (9-12), (**C**) College, and (**G**) General Public.

Careers in Sports Technology

Baine, Celeste. *High Tech Hot Shots: Careers in Sports Engineering* Alexandria, VA: National Society of Professional Engineers, 2004. (**HS**)

Materials for sports equipment

Rosen, Michael J, and John Margeson. *Balls!* (2006) and *Balls! : Round 2* (2008) Plain City, OH: Darby Creek Pub. (**E, I**)

Explores the history, materials and construction of various balls used in a wide variety of sports and games

Jennings, Terry J, and David Anstey. *Bouncing and Rolling* New York: Gloucester Press, 1988. (**E**)

Simple experiments and activities to demonstrate why some objects bounce and roll and others do not, and why some balls bounce higher than others

Goodstein, Madeline P. *Sports Science Projects : The Physics of Balls in Motion*. Berkeley Heights, NJ: Enslow Publishers, 1999 (**E, I**)

Activities and experiment demonstrate the relationship between design and performance of different kinds of sports balls

Super Materials [DVD] Films for the Humanities & Sciences, Lawrenceville, NJ, 2005. (**I, HS**)

Part of the film focuses on how some super materials have changed the face of sports

Thompson, Geoff. *Sports Technology*. South Melbourne [Vic.]: Nelson ITP, 1998. (**E, I**)

Looks at the ways in which technology has changed sports clothing and equipment

Sports-Related Experiments and Activities

Title selections in this section contain books with suggested activities, experiments, and projects. While many of the activities are related to physics, some activities deal with food composition and nutrition, materials science and technology, and properties of matter and surfaces (buoyancy, friction, etc.) that are related to sports.

Mercer, Bobby LaBaff Tom. *The Leaping, Sliding, Sprinting, Riding Science Book : 50 Super Sports Science Activities*. 1st ed: New York: Lark Books, 2006. (**I**)

Bevin, Roy Q. *Move with Science: Energy, Force, & Motion* Arlington, VA: NSTA Press, 1998. (**HS**)

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Gardner, Robert. *Science Projects About the Physics of Sports*. Springfield, NJ: Enslow Publishers, 2000 (E, I)

Sheely, Robert, and Louis Bourgeois. *Sports Lab: How Science Has Changed Sports*. New York: Silver Moon Press, 1994. (I)

Levine, Shar, and Leslie Johnstone. *Sports Science* New York, NY
Sterling Publishing Co., Inc., 2006. (I)

Cupples, Pat. *Sportworks: More Than 50 Fun Games and Activities That Explore the Science of Sports*.
Reading, Mass.: Addison-Wesley, 1989. (E, I)

Tocci, Salvatore. *Experiments with Sports*. A True Book;. New York: Children's Press, 2003. (E)

Tomlin, Lily, and Malcolm-Jamal Warner. *The Magic School Bus. Super Sports Fun [DVD]*
Burbank, CA: Warner Home Video, 2004, 1994 (E)

Sports Nutrition

Morris, Neil. *Food for Sports* Chicago, Ill.: Heinemann Library, 2006 (I, HS)

Includes healthy food choices, suggested recipes, and nutrition facts about foods

Gardner, Robert, and Barbara Gardner Conklin. *Health Science Projects About Sports Performance* Berkeley
Heights, NJ: Enslow Publishers, 2002 (E, I)

Includes experiments about nutrition, physical conditioning, exercise, and metabolism

Isberg, Emily. *Peak Performance: Sports, Science, and the Body in Action*. New York Simon and Schuster
Books for Young Readers, 1989 (I)

*How modern science has developed sports medicine and new ways of keeping fit, focused on US
Olympic Training Centers*

Parker, Steve, and Rob Shone. *Professor Protein's Fitness, Health, Hygiene and Relaxation Tonic*. London;
Sydney: Aladdin/Watts, 1996. (I)

Cartoon characters present material about fitness, health, and hygiene

Koellhoffer, Tara. *Science News for Kids: Health and Medicine* New York, NY: Chelsea House Publishers,
2006. (E, I)

Includes a group of articles on sports and exercise health

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