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## Microworlds (5<sup>th</sup> - 6<sup>th</sup> grade)

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**Barnard, Bryn. OUTBREAK: PLAGUES THAT CHANGED HISTORY.** Crown, 2005. Narrative nonfiction written with a dramatic flair, this book examines history through the lens of infectious disease. Each chapter shows how microbes have exerted major influence on historic events, such as the colonization of the Americas, slavery, the World Wars, city infrastructure, and poverty/class distinctions.

**Hayhurst, Chris. E. COLI (EPIDEMICS series).** Rosen, 2004. Text unfolds like a mystery story, showing how scientists discovered and tracked down E. coli 0157:H7. In addition to E. coli's spread via the meat industry, the book illustrates how it spreads on vegetables, apple juice, and salad. Food safety methods are discussed.

**Hirschmann, Kris. SALMONELLA (PARASITES series).** Kidhaven, 2004. Text explains how the parasite attacks the body. Numerous color reproductions of magnified micro-structures. A chapter on "Salmonella stories" show how food-borne illnesses spread.

**Nye, Bill. BILL NYE THE SCIENCE GUY'S GREAT BIG BOOK OF TINY GERMS.** Hyperion, 2005. Through, understandable text explains how bacteria and viruses function. Easy activities effectively demonstrate how germs grow and spread. Graphics provide scientific information and appropriate humor. Hand-washing and other precautions are emphasized.

**Pascoe, Elaine. SINGLE-CELLED ORGANISMS. (A KID'S GUIDE TO THE CLASSIFICATION OF LIVING THINGS series).** PowerKids Press, 2003. Starting with an explanation of scientific classification, two out of five kingdoms are single-celled organisms. Successive chapters introduce the types of organisms: bacteria, cyanobacteria, protozoa, algae, slime molds. Photos of magnified organisms.

**Solway, Andrew. WHAT'S LIVING INSIDE YOUR BODY? (HIDDEN LIFE series).** Heinemann Library, 2004. Numerous color reproductions of magnified organisms provide dramatic, three-dimensional testimony to many unseen microbes and parasites of the human body. Text explains the microbes' method of invading the body, and health symptoms. Other titles in this series include ...IN YOUR KITCHEN, ...IN YOUR CLASSROOM, ...IN YOUR BEDROOM, ...ON YOUR BODY, ...IN YOUR BACKYARD.

**Stewart, Gail B. MICROSCOPES (KIDHAVEN SCIENCE LIBRARY).** Kidhaven, 2003. Thorough text describes microscope development. The chapter on early microscopes includes stories of diseases to dramatize the early study of microorganisms. Electron microscopes (TEM and SEM) are followed by future technologies, including the micromicroscope. Also in this series: GERMS by Don Nardo, and MOLECULES by Bonnie Juettner.