GERMS!

Provided by:
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Information	Program Description
Ages 8-12	Germs! is a hands-on curriculum designed to introduce youth to the basic concepts of Chemistry and Microbiology. Students will use science processing skills like observation, measuring, comparing, predicting, experimenting, and relating.
Curriculum Format	Each lesson can be presented in 45-60 minutes. Teaching Guide with complete instructions is provided. Teaching Kit with materials needed to present lessons is provided. User may need to provide standard classroom supplies (pencils, scissors, glue). If a lesson requires perishable items (e.g. milk), user is responsible for these purchases.

Lesson	Overview
One: Micro-organism breakdown	Students will learn about prokaryotes and eukaryotes by playing a sorting game and creating their own prokaryote. They will also investigate eukaryotic cells by looking at their cheek cells under a microscope.
Two: Mythbusters	Students will watch a MythBusters episode about germs, do a handshaking and hand washing experiment to see how germs can spread.
Three: Germ Hunter Part One	Students will investigate the types of germs that grow in a school. In small groups, students will work together to collect samples from various locations and place their samples in a Petri dish. Students will learn about the scientific method by making predictions about their findings on a Scientific Method worksheet.
Four: Germ Hunter Part Two	Students will complete their Scientific Method worksheet by examining their findings from the previous session. Students will also watch a Magic School Bus video and have a discussion about how germs can spread.
Five: Micro-organism Food Tooth Decay	Students will do a cavity simulation with apples. Students will also learn about the microscopic organism, yeast, and how what it eats
Six: Cavities Part Two	Students will investigate their findings from the previous session and have a class discussion about what they found. Students will also be introduced to acids/bases and how they can affect our teeth by playing a game and measuring the pH in different beverages.