

2006-2007 WHRO Classroom Preview

Series Title: Metric System
Curriculum Area: Science
Grades: 5 - 9
of Programs/Length: 4/20:00 minute programs

1. Introduction To The Metric System (PREVIEW PROGRAM)

This program introduces students to the usefulness and fun of the metric system. The concept of measurement as related to the metric system kicks off the video, followed by examples of how the metric system is used in science. Through a series of real-life examples, basic units of metric length, volume, mass, and temperature are introduced. Other terminology includes: measuring, unit of measurement, decimal system, length, distance, volume, mass, temperature, meter, kilogram, liter, and Celsius. 20:00

2. Metric Length & Temperature

Through colorful animations and common everyday examples, this video helps students learn how to measure length and temperature using the metric system. Both the Celsius and Kelvin temperature scales are explained in depth. Emphasis is placed on tools and techniques used to measure metric length, distance, and temperature. Other terminology includes: meter, decimeter, centimeter, millimeter, kilometer, meter stick, odometer, thermometer, Fahrenheit, Celsius, and Kelvin scale. 20:00

3. Metric Mass & Volume

This video program helps students differentiate between mass and volume, and describe how these are measured in the metric system. Clear and interesting footage shows step-by-step how to use measuring tools such as balances, beakers, and graduated cylinders. Different techniques used to calculate the volume of regularly and irregularly shaped common objects are demonstrated. Other terminology includes: kilogram, gram, milligram, balance, liter, milliliter, cubic centimeter, water displacement, and density. 20:00

4. Metric Conversions

This program provides a conceptual foundation to help students understand how to convert between English and metric units of mass, volume, length, and temperature. The program also discusses how it is possible to convert between units of measurement within the metric system. Other terminology includes: gram, cubic centimeter, milliliter, kilometers to miles, pounds to kilograms, gallons to liters, and Fahrenheit to Celsius. 20:00