






















Science Skills

22 videos

	Year	Rating	Duration
 <p>Basic Techniques Series: Lab Skills</p> <p>Basic techniques in the science lab are important to master. This clip demonstrates how to safely light a Bunsen burner, how to correctly smell a test tube using wafting and how to gently mix the cont...</p>	2014	E	00:04:22
 <p>Checking Out Your Lab!</p> <p>Practical experiments in the school science lab are a great way for students to learn, but in order to get the most from these sessions, students need to know about the basic equipment typically found...</p>	2001	E	00:18:43
 <p>Connecting an Ammeter or Voltmeter Series: Lab Skills</p> <p>When working with circuits, it is necessary for students to also understand how to correctly connect a voltmeter and ammeter. This clip demonstrates how to connect an ammeter in series and a voltmeter...</p>	2014	E	00:03:20
 <p>Dilution Series: Lab Skills</p> <p>Accurate dilutions are an important skill for a science student. This clip demonstrates how to use a volumetric pipette and explains how to extend this skill to preparing dilutions.</p>	2014	E	00:04:16
 <p>Do-It-Yourself Science Series: Bill Nye the Science Guy</p> <p>Who knows better than Bill Nye the Science Guy that you can demonstrate big scientific ideas with small experiments? Get a lesson in "Do-it-Yourself Science" from Bill himself and learn how you, too,...</p>	1996	E	00:26:20
 <p>Fire Safety Equipment Series: Lab Skills</p> <p>When emergencies occur, students need to be prepared. This clip demonstrates how to use a fire blanket, a fire extinguisher and a sand bucket so that students are prepared for a fire in the science la...</p>	2014	E	00:02:32
 <p>Personal Safety Equipment Series: Lab Skills</p> <p>When accidents happen in the science lab, students need to be prepared. This clip demonstrates how to use an eye bath, a chemical shower and a fumehood, and explains the items they can expect to find...</p>	2014	E	00:03:10
 <p>Playing it Safe in the Lab</p> <p>Practical work in the school science lab can be great fun, but like most work environments there can also be many dangers for students. This program covers basic safety rules.</p>	2001	E	00:18:57
 <p>Pseudoscience Series: Bill Nye the Science Guy</p> <p>Bill shows how the cold, hard facts of science can be used to test ideas, myths, and inexplicable happenings, along with Way Cool Scientist Bernard Leikind of the Skeptics Society.</p>	1996	E	00:25:27
 <p>Pseudoscience: Looking for Evidence and Proof Series: The Eyes of Nye</p> <p>Bill shows students how to examine out-of-this-world claims through the eyes of a scientist - by looking for evidence and proof. He exposes techniques used by psychics, demonstrates the science of wal...</p>	2005	E	00:29:35

	<p>Safety in the Senior Science Lab</p> <p>Safety in the Science Laboratory is imperative, not only is it the basic fundamental of a successful learning environment, it is also every student and teachers right to work in a safe environment. Th...</p>	2009	E	00:21:12
	<p>Scientific Method: How It Works</p> <p>Scientific methodology is a cornerstone of modern science. This video introduces scientific methodology by describing its development and purpose. Then, using the basic question 'Do plants need light...</p>	2004	E	00:15:54
	<p>Scientific Problem Solving</p> <p>Series: Understanding Science Series</p> <p>This programme takes a student through the correct steps for solving a problem scientifically: define or state the problem, research the problem, form a hypothesis, test the hypothesis, record and ana...</p>	2003	E	00:16:39
	<p>Separation Techniques</p> <p>Series: Lab Skills</p> <p>Separating mixtures is an important skill. This clip looks at how to: fan-fold filter paper; separate a mixture of iron filings, sand and sodium chloride; recover a dissolved salt like sodium chloride...</p>	2014	E	00:06:38
	<p>Spring Balance, Ticker Timer, Hodson Light Box</p> <p>Series: Lab Skills</p> <p>All physics students will encounter the spring balance, ticker timer and Hodson light box. This clip introduces these three simple instruments and demonstrates basic skills for measuring force, speed,...</p>	2014	E	00:03:16
	<p>Taking Measurements</p> <p>Series: Lab Skills</p> <p>In a science lab, it's important to know how to take accurate measurements. This clip demonstrates how to: measure temperature using a thermometer, use an analytical balance, and measure the volume of...</p>	2014	E	00:03:19
	<p>Testing for Gases</p> <p>Series: Lab Skills</p> <p>Without knowing the equation for a reaction, there are simple tests a student can perform to identify the gas produced. This clip demonstrates the tests used to identify hydrogen gas, oxygen gas and c...</p>	2014	E	00:03:08
	<p>Testing for Organic Compounds</p> <p>Series: Lab Skills</p> <p>When doing food analysis, a student can test to identify the food component present. This clip demonstrates what to expect when testing for the presence of protein, starch, carbohydrate, glucose, and...</p>	2014	E	00:03:55
	<p>Titration</p> <p>Series: Lab Skills</p> <p>Volumetric analysis is an important technique used in quantitative testing, which takes some practice to perfect. This clip demonstrates how to set up and perform a titration using a simple acid-base...</p>	2014	E	00:02:19
	<p>Using a Microscope</p> <p>Series: Lab Skills</p> <p>Biology students need to be familiar with how to use a scalpel safely and a microscope correctly. This clip demonstrates how to move about while holding a scalpel, how to use a microscope and how to p...</p>	2014	E	00:02:48
	<p>Using a pH Meter</p> <p>Series: Lab Skills</p> <p>A pH meter is used to measure the pH of a solution and is a delicate instrument. This clip introduces students to using a pH meter to check the pH of an acid or base.</p>	2014	E	00:02:14



What's So Special About Science?

2009

E

00:21:46

Very few parts of our everyday lives are untouched by science in some form or other. Scientific inquiry, research and technological development have taken human beings on an incredible journey – parti...