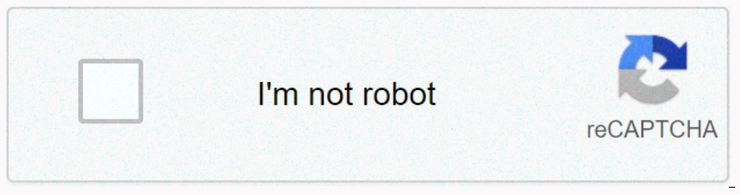

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Physical science lab equipment worksheet

Kindergarten, 1, 2, 3, 4, 5, 6, 7, 8, 9, HomeschoolPage 2 7, 8, 9, 10, 11, 12th, Higher Education, Adult Education, HomeschoolPage 25th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, Higher Education, Adult Education, HomeschoolPage 35th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, Higher Education, Adult Education, 2nd Homeschool, 3, 4, 5, 6, 7, 8, 9, HomeschoolPage 2 7, 8, 9, 10, 11, 12, Higher Education, Adult Education, HomeschoolPage 25th, 6th, 7th, 8th, 9th, 10th, 10th, 10th, 10th, 10th, 10th11th, 12th, Higher Education, Adult Education, HomeschoolPage 35th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, Higher Education, Adult Education, Homeschool Displaying top 8 worksheets found for - Lab Equipment Answer Sheet.Some of the worksheets for this concept are Part 2, Lab equipment activities , reading instruments , Work lab equipment, Hhps and whmis symbols are all mixed, Computer lab security test, lab security symbol work, Kitchen equipment identification small equipment. Find the worksheet you're looking for? To download/print, click the pop-out icon or print icon to the worksheet to print or download. The worksheet opens in a new window. You can &; download or print using the browser's document reader options. Were you stocking a new physics or chemistry lab from scratch? Do you have a very empty laboratory or classroom of science projects, equipment, and fun? Well you've come to the right place! Download our practical physics lab maker or chemistry lab maker to quickly find out what you need for your lab – they have all the tools, toys and tools to help you get started. The top of each sheet is filled in advance based on the equipment that is usually required up to 6 laboratory groups. Simply enter the number of your lab groups and the number and price are automatically updated, giving you quick and easy deals to hoard your lab! LESSON: General Lessons – Length, mass, volume, density, review page (Student worksheet provided) Conversion Practice (Student worksheet provided) Metric System Lesson Plan Link & My Metrics Unit Online Resource General Lesson includes laboratory length, mass, volume, density, and temperature as well as conversion (metric metrics to metrics and metrics to English). Students have plenty of opportunities to use rulers, three-ray balance, and other science tools to learn how to use metric measurement systems. Lesson #1 - Long Presentation (PPT) - I used this presentation to review the basic units of length and how to measure distance. Long Worksheet (pdf) - The student worksheet that corresponds to the presentation. Lesson #2 - Mass Mass Presentation (PPT) - I used this presentation to review the basic units of mass and how to measure mass balance of three beams. Bulk Worksheet (pdf) - The student worksheet that accompanies the presentation. Lab Mass (pdf) - For To lab mass, students first estimate the mass of various objects, then find the actual mass using triple-beam balance or other scales. To prepare for the activity, you must arrange various items (coins, paper clips, marbles, stones, large washing machines/hooks, etc.) and balances or three-beam scales for each group. They can group items together to achieve a targeted mass, such as three cents to 5 grams, or use only one item. The lab has always been a hit and students get much-needed estimation practices. NOTE: Estimates must be checked before measurements are allowed! Some students will skip the estimation step and advance using the scales! Another idea (from Sandra Gasparovich, Central Jr. High, East Peoria, IL) involves using film tubes, triple-beam balance, and various materials to create a set of masses. The students can use the masses during laboratory activities or challenge them to take them home and find items with such a mass. Another twist is to fill the tube pairs with various objects (cents, popcorn, seeds, screws, washing machines, M& Ms.). Give each student one tube and allow time for them to search for their partner – without looking into the tube. Once the group finds their match, students can check their results by opening the tube. Lesson #3 - Volume Volume Presentation (PPT) - I used this presentation to review the basic units of volume and how to measure the volume of regular and irregular objects. Volume Worksheet (pdf) - The student worksheet that corresponds to the presentation. Volume Lab (pdf) - This lab consists of measuring the volume of liquids and ordinary solids as well as using pass cylinders and overflow cans to find irregular object volumes (rocks). Lesson #4 - Density BrainPop Measuring Matter Video - Students watch BrainPop movies and complete the activity sheet. Mystery Canisters (pdf) - The density lab, known as Mystery Canisters, challenges students to modify three film tubes so they have one that floats, one that sinks, and one that will remain suspended in a tub of tap water. Materials needed for the laboratory are: a plastic tub of water (or the bottom of a 2-liter soda bottle), three film tubes (free of Walmart, KMart, etc.), and an assortment of small objects (cents, paperclips, marbles, etc.) for the masses. Students will also need equipment to help them measure mass (balance of three rays) and volume (cylinder passes and overflow cans.) Students are allowed a few minutes to make three tubes that will (1) float, (2) sink, and (3) remain suspended. Students may have difficulty getting one of the tubes perfectly suspended. If students can tubes to suspend with less than half the lid on the surface, they should get a number resulting in a density approaching 1.0 g / ml. Once students approve their tubes, they mass and volume of tubes and calculate each density. They should pay attention that floating bottles have a density of less than 1 g / ml, sinking bottles have a density greater than 1 g / ml, and suspended bottles have a density close to 1 g / ml. Also try ... Strengthen the lesson with fluid activity layers from TerrificScience.org website. Also available ... Gummy Bear Lab (pdf) - The lab combines a variety of metric measurements (length, volume, mass, and density) to record what happens to gummy bears when placed in water overnight. NOTE: This lab worksheet is based on a gummy bear lab available online; however, websites with native labs are no longer available. Review The Metric Mania Survey Material (pdf) - This worksheet is used at the end of the unit to review material we've studied. Metric Challenge Puzzle (pdf) - Students review key terms from the metrics system to find answers to jokes. The answer key is provided. |Back to top| Conversion Practice Lesson #1 - Metric Conversions English/Metric Conversion Presentation English/Metric Conversions (pdf) - The answer key is provided. One part of my metrics unit includes some conversion-related lessons. My students have difficulty with the English measurement system (feet, pounds, and gallons) to metric units (meters, kilograms, and liters). The first lesson consists of making a conversion from one system to another. During this lesson, students use information from the measurement chart to convert measurements. This assignment allowed my students to connect the English measurement system used in our daily lives to metric system units. Lesson #2 - Metric Conversions - Conversion Metrics Ladder Method Metrics (pdf) - Includes two worksheets Thanks to Christina Bryant for sharing her worksheets - Meter, Liter & Gram (PDF) The second lesson focuses on using the metrics ladder to calculate conversions in the metric system. At first the lesson was focused on calculating the number of jumps needed to move from one metric unit to another. The jump determines how many decimals are moved and which direction. I remind students to calculate the number of jumps needed to move from one unit to another, such as moving from meter to millimeter, rather than counting the number of boxes. To convert from meter to millimeter, it takes 3 jumps to the right which means decimals need to move 3 jumps to the right. As they study the process and understand the value of metric presets, I introduce using multiplication and division by 10, 100, and 1000 to achieve the same conversion. They quickly learned the relationship between metric units, such as 1000 in 1 liter. Want a great way to help students remember the order of metrics Amy Monroe of Clifford H. Smart School in Commerce Township, Michigan, uses this phrase: Children Have Dropped Over Dead Converting Metrics. The first letter of each word refers to one of the metric preses (kilo, hecto, etc.) and over refers to the basic unit (meter, liter, or gram). Brad Loewen, a competitor in the Science Olympiad titled Metric Estimation, used the phrase King Henry Does Drink Chocolate Milk to help his team finish fourth in the state-level event. Conversion Reviews - Metric Mania Scavenger Hunt Game Challenge your students to hunt with metric conversion issues! I hid 60 game cards with metric conversion issues in my room. Some cards are easy to see, while others are hidden under science desks, chairs, trash cans, behind curtains or posters, or other easily searchable places. (I don't hide it in anything so the kids don't have to search through my closet or desk drawer.) Children work in teams to find cards and solve problems. Teams can only work on one time card and must have the correct answer before they can start looking for another card. The team with the most cards at the end of the game wins a special prize - an extra credit point or a piece of candy! Since I have more than one science class every day, I allow kids to hide game cards for the next class. Game Cards - Front card (pdf) and Back card (pdf) - Print Metric Mania (front card) on colored paper or stock cover, then print the problem on the back. I laminate my set so that the card can be used more than once and hold it for repeated use by junior high school students. Metric Mania Scavenger Hunt Game Student Worksheet (pdf) - Provides directions, game rules, and areas for students to write the answers. Metric Mania Scavenger Hunt Answer Key (pdf) - The answer key to the problem on the card. I crossed out numbers when the kids solved the problem so I could keep track of the number of cards that were still hidden. Also available ... Thanks to Deborah Noles-Garcia for sharing her Metric Victims Game. |Back to top| AAAMath Online Measurement Metrics System Lessons - This site provides explanations, interactive practice pages, and challenge games about measurement. Discovery School – A Metric World – This lesson gives students the opportunity to compare units of measurement – worksheet provided! Dr. Math Measurement Lessons - A collection of math lessons with ideas for length and volume. EdHelper Measurement Worksheet – An assortment of worksheets and links to lessons involving measurement. Also visit the Measurement Lessons page! Metric America - Explore this site for great activities help your students master the metrics system! Don't miss the Instant Metrics area. Mini Metric Olympics - Download this PDF with ideas for Olympic Metrics! Metric! System Info – Lots of great information for any unit on the metric system! Metric Estimation Game (Teachers.net) - A great game that involves a metric system played like The Price Is Right TV Game show! NIST Kids- Explore this site for great activity for your metrics unit! See also their educator resources. Science Teaching Ideas – Explore this section of the page's metrics system for some great lessons and activities! SMILE Math Page - The first part of this page contains lesson ideas for measurement. Teach-nology Measurement Lessons – A large collection of links (with descriptions) to sites with lessons for measurement. TheMetricSystem.info – Visit this website for helpful instructions and resources for your metrics unit! Think Metrics – A great resource for information for students and teachers! The site also offers metric posters, rulers, games, and more! | Back to top| above|