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LESSONS: General Lessons - Length, Mass, Volume, Density, Page Review (Student Sheets Provided) Transformation Practice (Student Sheets Provided) Metric System Plan Links - Internet Resources Common Lessons My Metric Unit includes labs on length, mass, volume, density and temperature, as well as conversion (metric by metric and metric in English). Students have many opportunities to use rulers, three-beam balance and other scientific equipment to learn how to use a metric measurement system. Lesson #1 - Length Presentation (PPT) - I use this presentation to review the main units of length and how to measure distances. The length of the sheet (pdf) - Student sheet, which goes along with the presentation. Lesson #2 - Mass Presentation (PPT) - I use this presentation to review the main units of mass and how to measure mass using a triple beam balance. Mass sheet (pdf) - Student sheet that goes along with the presentation. Mass Lab (pdf) - For a mass lab, students first estimate the mass of different objects and then find the actual mass using triple beam residues or other scales. To prepare for the event you will need to organize various items (coins, paperclips, balls, stones, large washers/c-hooks, etc.) and triple beam balances or scales for each group. They can group items together to reach the target mass, such as three pennies for 5 grams, or simply use one item. This lab is always a hit and students get much needed practice assessments. NOTE: Assessments must be verified before any measurements are allowed! Some students will skip the grade step and move on to using the scales! Another idea (from Sandra Gasparovich, Central Junior High, East Peoria, Illinois) involves the use of film canisters, triple beam balance, and various materials to create a set of masses. Students can use the masses during laboratory activities or challenge them to take them home and find items with both masses. Another twist is to fill pairs of canisters with different objects (pennies, popcorn, seeds, screws, washers, MSM). Give each student one canister and give them time to find their partner - without looking into the canister. Once the teams have found their match, students can check their results by opening the canisters. Lesson #3 - Tom Tom Presentation (PPT) - I use this presentation to review the core volume units and how to measure the volume of regular and irregular objects. Tom Liszt (pdf) - Student sheet that goes along with the presentation. Tom Lab (pdf) - This laboratory consists of measuring the volume of liquids and regular solids, and using graded cylinders and overflow can find the volume of irregular (breed). Lesson #4 - Density BrainPop Measuring Matter Videos - Students watch the BrainPop movie and complete the activity sheets. Mystery canisters (pdf) - The The The lab, known as Mystery Canisters, challenges students to change three film canisters so that they have one that floats, one that sinks, and one that will remain suspended in the bath of tap water. The materials needed for the lab are: plastic tubs with water (or the bottom half of a 2-liter bottle of soda), three film canisters (free from Walmart, KMart, etc.), and an assortment of small objects (pennies, paper clips, balls, etc.) for mass. Students will also need equipment to help them measure mass (triple beam balance) and volume (graded cylinders and overflows). Students are allowed a few minutes to create three canisters that will (1) float, (2) sink, and (3) remain suspended. Students may have difficulty getting one of the canisters perfectly suspended. If students can get a canister suspended with less than half the lid above the surface, they should get numbers that lead to a density of about 1.0 g/ml. Once students have their canisters approved, they find the mass and volume of the canisters and calculate each density. They should note that the floating bottle has a density of less than 1 g/ml, the sinking bottle has a density of more than 1 g/ml, and the outboard bottle has a density close to 1 g/ml. Strengthen the lesson by layering liquids from the TerrificScience.org website. Also available ... Gummy Bear Lab (pdf) - This lab includes various metric measurements (length, volume, mass and density) to record what happens to a sticky bear when it is placed in water overnight. NOTE: This lab table was based on the adhesive bear lab available online; however, a website with an original laboratory is no longer available. Materials Review Metric Mania Review (pdf) - This sheet is used at the end of the block to review the material we have studied. Metric Challenge Puzzle (pdf) - Students review key terms from the metric system to find the answer to a joke. The answer key is provided. | Back to the top Transforming Practice Lesson #1 - English/Metric English Conversion/Metric Conversion Presentation English/Metric Conversion (pdf) - Key Response was provided. One part of my metric unit includes several conversion lessons. My students have difficulties with the English measurement system (legs, pounds and gallons) for metric units (meter, kilograms and litres). The first lesson is about transforming from one system to another. During this lesson, students use information from the measurement chart to convert measurements. This task allows my students to connect the English measurement system used in our daily lives to units of metric Lesson #2 - Metric Transformation - Ladder Method Metric Transformation Presentation Metric Transformation (pdf) - Includes two sheets featuring Christina Bryant for sharing her sheet - Meters, Litres, th Grams Grams The second lesson is about using a metric ladder to calculate conversions in the metric system. At the beginning, the lesson focuses on counting the number of jumps that are required to move from one metric unit to another. Jumps determine the number of times the decimal moves and in which direction. I remind students to count the number of jumps it will take to move from one unit to another, such as moving from meters to millimeters rather than counting the number of boxes. To convert from meters to millimeters, it will take 3 jumps to the right, which will mean a decimal will need to move 3 jumps to the right. As they learn the process and understand the value of metric prefixes, I will invost the multiplication and division of 10, 100, and 1000 to perform the same conversion. They quickly learn the relationship between metric units such as 1000 milliliters per liter. Want a great way to help students remember ordering for metric prefixes? Amy Monroe of Clifford H. Smart School in Commerce Township, Michigan, uses this phrase: Children have fallen OVER dead conversion metrics. The first letter of each word refers to one of the metric prefixes (kilo, hectos, etc.), and above refers to the main unit (meters, liters or grams). Brad Loewen, a competitor in a science Olympics event called Metric Score, used the phrase King Henry To drink chocolate milk to help his team finish in fourth place in the event at state level. Transformation Review - Metric Mania Scavenger Hunting Game Challenges Your Students to Hunt a scavenger with metric conversion problems! I hide 60 game cards with metric conversion problems in my room. Some of the maps are easy to see, while others are hidden under scientific tables, chairs, a trash can, behind a curtain or a poster, or in other places that are easy to look for. (I don't hide them inside anything so kids don't have to go on a quest through my cupboards or desk drawers.) Children work in teams to find maps and solve problems. Teams can only work on one card a while and must have the correct answer before they can start looking for another card. The team with a lot of cards at the end of the game wins a special reward - extra credit points 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 - Before cards (pdf) and card back (pdf) - Print Metric Mania (before cards) on colored paper or cover, and then print out the problems on the back. I laminated my kit so the cards could be used more than once and hold up to reuse of junior schoolchildren. Metric Mania Scavenger Hunting Game Student Table (pdf) - directions, rules of the game, and area for students to write answers. Metric Mania Scavenger Hunt Answer Key (pdf) - the key to answering problems on Cards. I cross out the numbers as the kids solve problems so I can track the number of cards that are still hidden. Also available ... Thanks to Deborah Noles-Garcia for sharing her metric victim game. | Back to the top of the Metric System Lessons Online AAAMath Measurement Lessons - This site provides explanations, interactive practice pages, and call games about measurements. Discovery School - A Metric World - This lesson gives students the opportunity to compare units of measurement - sheets are provided! Dr. Mathematics Measurement Lessons - A collection of math lessons with ideas on length and volume. EdHelper Measurement Sheets - Assortment of sheets and links to lessons related to measurement. Also visit the Measure Lesson page! Metric America - Explore this site for great events to help your students master the metric system! Don't miss the Instant Metric area. Mini-metric Olympics - Download this PDF with ideas for the metric Olympics! Metric System Information - Lots of great information for any unit on the metric system! Metric Score Game (Teachers.net) - a great game involving the metric system that is played as a TV game show Price is right! NIST Kids- Explore this site for great activities for your metric unit! Also, check your teacher resources. Science Teaching Ideas - Explore the metric system section of this page for some great lessons and activities! SMILE Mathematics page - The first section of this page contains lesson ideas to measure. Lessons measuring the teaching of science - A large collection of links (with descriptions) to sites with lessons to measure. TheMetricSystem.info - Visit this site for useful tips and resources for your metric unit! Think Metric is a great resource for information for students and teachers! The site also offers metric posters, rulers, games and more! Back to the top top we have

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