

Chapter 1 : Science 10 Digital: Periodic Table Worksheet

Periodic Table Scavenger Hunt Worksheet Dated April 6, By Stephen Pepper If you want to organize a fun chemistry assignment that can either be used during a school lesson or given as homework, here's a free printable periodic table scavenger hunt worksheet you can use.

Obtaining, evaluating, and communicating information The Need for this Lesson Students need to be able to recognize the atomic symbols of the Periodic Table of Elements. But are flash cards really necessary? If students have multiple opportunities to use chemicals in the table or work with the table itself, than they should not have to memorize the table. This lesson was inspired by a now archived website, Armchair Chemistry by Eric Streitberger. I have formatted the lab to fit in a journal and modified the text as needed to support the learning of my students. Students can make better sense of the molecules if they can attach a chemical name to an atomic symbol. Students will critically read through summaries of element name origins to discover patterns in naming conventions. This lesson is a step towards preparing students for: Understanding that when atoms combine we call the resulting form molecules. Understanding the structure of atom. How we organize atoms using a periodic table. Modeling of atom using stick and ball. Changing an atoms number of electrons, protons, neutrons. Learning how to read simple elements on table, and to model with stick and ball structure. Learning a few more complex atoms not too complex built off of simple by changing proton, electron, neutron numbers. Students in Action 45 minutes As we embark on our journey into chemistry, students are concerned about learning the atomic symbol for the elements in the periodic table. At first glance, very few elements are recognizable and the names appear to be random. Students work on this lesson with their elbow partner. When students finish the scavenger hunt, we compare answers as a class. We find that there are some variations in the possible answers. As long as students can provide an explanation for their selection we agree as a class to accept their answers. For instance, you can drive a Mercury and a Neon. So why am I requiring my students to learn the chemical symbols for elements in the periodic table? In the following video, I explain the rationale for this lesson as well as how students will use the knowledge in my decomposition lessons: It is another fun way to get to know the elements without using flashcards. I tell students that in future labs, we will be working with chemicals and examine the elements in each. Using chemicals, examining chemical equations and referencing the periodic table will help them learn the chemical symbols for many of the most common elements.

Chapter 2 : Periodic Table Scavenger Hunt | Scavenger Hunt

Fun Periodic Table Scavenger Hunt Use a periodic table to hunt up the answers to these 20 periodic table questions. The reward for your hard work is an expanded knowledge of how to use a periodic table!

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Balancing Act T. I instruct my students to make a list of the atoms on each side of the equation to help them keep track of their progress. As they add coefficients, they increase the numbers for those atoms in their lists. The students can easily see if they have balanced each equation. An answer key is provided.

Balancing Equations Challenge pdf - A worksheet to use after the Balancing Equations Practice to reinforce what the students have learned about balancing equations.

Balancing Equations Online pdf and **Balancing Equations Online 2 pdf** - Two different versions are available for this internet lesson about balancing equations. The sites for this worksheet are listed on the Chemistry links page of the Kid Zone.

Snowman Challenge Game - Challenge your students to a game of balancing equations! Print out the snowman cards and problems. Cut them apart and hide in your classroom. Have the kids work in pairs to find problems and solve them. Rules and directions are printed on the top of the student worksheet. I cross off the problems as they are solved to keep track of the number of problems that are still hidden as they play the game.

Snowman Cards - Front of cards - **Snowman Cards pdf** and Back of cards - **Snowman Card Problems pdf**

Equation Challenge Game - An updated version of the Snowman Challenge Game, which includes new questions in addition to the equations from the original challenge for a total of 60 problems. I printed out the challenge cards and placed each one inside an Easter egg, which I hid in various locations around my classroom. I have the kids work in pairs to find problems and solve them. Visit the Fun Based Learning website for worksheets and other Chemistry games. The site also provides online practice problems! For this challenge, the students must find elements that match the clues on the various cards. She used pumpkins to decorate the back of her cards.

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Chemical Reactions T. I use this worksheet after we have already discussed balancing equations to explore the differences between synthesis, decomposition, single replacement, and double replacement reactions. Students watch a movie about chemical reactions and then use colored pencils to help them determine what happens during the reaction. Teacher notes have been provided along with the student worksheet and answer key. The video is available at their streaming site under the name "Physical Science Series: Back to top

Playing with Polymers T. My students loved learning about polymers and playing with their slime during a unit on petrochemicals. After everyone has had a chance to test the slimes, I provide 3 samples of mystery slimes. The students do the tests with the mystery slimes to determine which ingredients were used to make each one. Download the recipes and teacher notes for more details! Students fill in the note worksheet using the information on the first few slides of the presentation and complete the data chart as they finish the slime experiments. I require students to complete the puzzle pages on their own time.

Playing with Polymers PPT - PowerPoint presentation that includes the information on the student note pages, link to the movie, and safety rules as well as directions for each of the slime tests on the recipe page listed below.

Playing with Polymer Recipe Card pdf - I print out enough recipe cards to provide 2 copies for each group of 4 students. If possible, laminate the cards to help them last from year to year. Visit the Hands-On Plastics website to order the free kit and view other great educational materials! The kit provides several different types of plastics and great lesson ideas that I used to integrate the world of plastics into the Playing with Polymers unit! Want more information about slime? Visit these sites for information, recipes, and lesson ideas

Polymer Ambassadors - Explore their great ideas for incorporating polymers into your science curriculum.

Polymer Project - Information and recipes for a variety of slimes!

A Bag of Slime - Information about non-Newtonian fluids and recipes for slime.

JLab Obleck - A polymer version of Obleck with several ready-to-use worksheets to challenge your students. Instruct them to place the marshmallows in the syringe and replace the plunger. Push the plunger as far down as possible without squashing the marshmallows. Place one finger on the end of the syringe and pull the plunger out to the end of the syringe. Students will notice that they get larger, or expand. As the plunger is pulled out, the volume of air inside the syringe increases causing a drop in pressure. This can be seen by the expansion of the marshmallow. Next leave the plunger at the end of

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the syringe and place a finger on the other end. Push the plunger into the syringe and observe the marshmallows. As the plunger is pushed into the syringe, the volume of air inside the syringe decreases, causing an increase in pressure. This can be seen by the compression, or shrinkage, of the marshmallows. Cut tissue paper into strips and wrap tightly around each balloon. Place one balloon in a warm spot, such as in a car on a warm day or near a heater. Leave for several minutes. Students should be able to observe the balloon increasing in size or volume. If you are lucky, the tissue paper will tear! As the temperature of the gas increases, the volume also increases as the gas expands. A good reason not to leave helium balloons inside a car on a hot day! Place the other balloon in a cold spot, outside on a winter day or in a freezer. Students should be able to observe the tissue paper becoming loose on the balloon - it may even fall off or slide off easily. As the temperature of the gas decreases, the volume also decreases. Many places that sell helium balloons in the winter time will warn you that your balloons may shrink when they are in the cold, but will return to normal size once they are back at room temperature. Back to top Tasty Solution T. Tomm, Havana Junior High, Havana, IL During a lesson on mixtures and solutions, my students compare the dissolving time of a piece of candy in various situations. Once completed, they use the data to create a graph and answer a few questions related to solutions. Back to top Messing With Mixtures T. Tomm, Havana Junior High, Havana, IL This lab project allows students to investigate the differences between mixtures, colloids, and solutions! Download the lesson worksheets and lab notes for more details. This lab includes the Tasty Solution lesson described above. Use sharpie markers and rubbing alcohol to make a cool tie-dye t-shirt project that would be a hit for any unit on solutions and mixtures! Visit the Steve Spangler tie-dye webpage and scroll down the page for the directions! Be sure to visit <http://www.sciencewear.com> Check out "wearable" science projects at ScienceWear. Links to my favorite online resources for lesson plans, activities, and worksheets.

Chapter 3 : Lesson Element Scavenger Hunts | BetterLesson

As one student is coming to get the papers, I ask everyone to get out their Color Coded Periodic calendrierdela science.com everyone is back at their tables, I review the instructions on the Periodic Table Scavenger Hunt.

Chapter 4 : Periodic Table Scientist Worksheets - Printable Worksheets

Periodic Table Scavenger Hunt. 7. Every element in group one has _____ electron in its outer shell. Every element in On your periodic table, draw the black stair.

Chapter 5 : Photos: Periodic Table Fill In Chart, - WORKSHEET EDUCATION PICS

A Periodic Table of the Elements scavenger hunt all about Me, Myself, & I talk about student centered! One in a series of student centered, fun, and engaging scavenger hunt puzzles designed to introduce and familiarize students with the Periodic Table.

Chapter 6 : The Periodic Table

Use the periodic table of elements and your text book to explore and learn to use the periodic table. To answer each of the questions below, draw the atomic number, chemical symbol and element name.

Chapter 7 : Free Periodic Table Scavenger Hunt Worksheet To Download And Print

Periodic Table Scavenger Hunt. Search your periodic table for the answers to these questions. 1. Which element is number 14 on the periodic table? 2. What is the.

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Chapter 8 : Ninth grade Lesson Periodic Table Scavenger Hunt | BetterLesson

Some of the worksheets displayed are Periodic table work, Physical science name element work, Student work time 15, An alien periodic table, Names and symbols of elements, Chapter 12 directed reading work the periodic table, Periodic table, Periodic table scavenger hunt.

Chapter 9 : The Science Spot

Grab your periodic table and search for the answers to this Periodic Table Scavenger Hunt! Use a periodic table to hunt answers to these 20 questions. Find this Pin and more on Diet by Linda Long.