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Position of actinides in periodic table

It's human nature to organize things. Cooks painstakingly organize their spices into various groupings, whether alphabetically or according to how often they're used. Kids dump out their piggy banks and sort their riches into piles of pennies, nickels, dimes and quarters. Even the items in a grocery store are grouped a certain way. Head down the international aisle, and you'll find packages of Chinese egg noodles sitting next to boxes of taco shells.Chemists, as it turns out, are organizational junkies, too. They look for similar physical and chemical properties among the elements, the basic forms of matter, and then try to fit them into similar groups.Scientists began attempting to organize the elements in the late 1800s when they knew of about 60. Their efforts, however, were premature since they were missing a key piece of information: the structure of the atom. While initial efforts failed, one attempt by a Russian chemist named Dmitry Mendeleev showed much promise. Although Mendeleev wasn't 100 percent correct, his approach laid the groundwork for what is now the modern periodic table of the elements.Today, the periodic table organizes 112 named elements and acknowledges several more unnamed ones. It has become one of the most useful tools in chemistry, not only for students, but for working chemists as well. It classifies the elements according to their atomic number (more on that soon), tells us about the nuclear composition of any given element, describes how electrons are arranged around a given element and allows us to predict how one element will react with another.So, exactly what is this feat of organization? Keep reading as we examine the history, organization and uses of this most handy chemical tool. It's handy to know about what group a particular element resides in and what its atomic structure is like, but that's not all the periodic table has to tell you. If you're looking at it, you're casually taking in work that scientists have spent lifetimes struggling with. And if you look at the table as a whole, some big trends start to emerge that tell us how one element will react with another.Before we can see these trends, a quick chemistry recap might be good. First, metals react with nonmetals to form ionic compounds. The nonmetal atom takes one or more valence electrons from the metal atom. When an atom gains or loses a valence electron, it forms an ion. An ion with more protons than electrons is positively charged and called a cation (comes from the metal). An ion with more electrons than protons is negatively charged and is called an anion (comes from the nonmetal). In the end, both ions have a full outer energy level. Second, nonmetals tend to share electrons so that both atoms have full outer energy levels; they form covalent compounds. But how do you know which element will react with which to produce an ionic or a covalent compound? That depends on a few factors:Ionization energy: the amount of energy it takes to strip away the first valence electronElectronegativity: a measure of how tightly an atom holds onto its valence electronsNuclear charge: the attractive force between the positive protons in the nucleus and the negative electrons in the energy levels. The more protons, the greater the nuclear charge.Shielding: inner electrons tend to shield the outer electrons from the attractive force of the nucleus. The more energy levels between the valence electrons and the nucleus, the more shielding.Let's see how these factors can help predict what type of chemical reactions any two elements will make.If you look at the periodic table, ionization energy tends to decrease as you move down a column and increase as you move across a period from left to right. When you compare elements in groups 1 and 2 (on the left) with those in 16 and 17 (on the right), you'll find that the elements in the first groups have lower ionization energies, won't hold on to their valence electrons as tightly and will tend to form cations. So, elements in groups 1 and 2 will tend to form ionic compounds.Like ionization energy, electronegativity decreases as you go down a column and increases as you go across a period from left to right. So, fluorine is more likely to take electrons from another element than lithium. The difference in electronegativity between two elements will determine whether they exchange electrons (ionic compounds) or share electrons (covalent compounds). You can use trends in ionization energy and electronegativity to predict whether two elements will form ionic or covalent compounds.Lastly, the nuclear charge increases as you go across and down the table, while the shielding stays constant across the periods, but increases as you go down the columns. These tendencies tell you about atom size. Atoms and ions get bigger as you go down the columns because the shielding effect outweighs the effects of the nuclear charge, so the attraction between the nucleus and electrons is weaker and the atom expands in size. In contrast, atoms get smaller as you go across the periods because the nuclear charge effect outweighs the shielding effect, so the attraction between the nucleus and the electron is greater and the atom shrinks in size.It's hard to believe that one measly sheet of paper can contain that much information. Keep up with the latest daily buzz with the BuzzFeed Daily newsletter! Just the thought of looking at the periodic table makes us cringe because of everything that has to be remembered. But thinking about how it has helped us know so much information by just looking at it, gives us some sense of relief. So, thinking about it that way, periodic tables aren't a confusing problem—they're a helpful problem-solver.What if we make things interesting and give the periodic table a fashion-forward twist? Sounds crazy, right?Well, we recently came across this really amazing periodic table by Sophie and Trey that every style enthusiast would love. The best part about this table is that it has everything you need to rid you from your everyday dressing woes, from color tones belonging from every category like jewel, neutral, bright and soft, to fashion articles to help you decide what goes well with what and how to accessorize your complete look. It's more like your virtual closet that answers the most important question that you don't normally get an easy answer for: "What should I wear today?" the help of this table, we decided to put you out of your sartorial misery and help you with deciding how you can dress yourself on a daily basis while keeping yourself connected with the trends. Well, they say you aren't completely dressed until you wear the right accessories, so why don't we see how these everyday outfits can be matched with the right accessories (by the way, they don't actually say that, but you need accessories to complete your look along with smile, so why not).Yes, there's an easy equation for this. If you have the essentials sorted, the rest is a piece of cake. You can pair your favorite top with your least favorite bottom, go with an all-black everything look and can also accessorize a rather casual outfit, making it look fancy. So, let's give you the equation:Basic + Dressy + Fixer + Accessories = Your Wardrobe for Every day Now that you have a clear equation, let's work on unlocking this achievement of dressing up flawlessly every day without much effort.1. Begin with the basicsYour basic section of the wardrobe is usually based on neutral colors and staples pieces. If you take a look at the table, a number of ideas to adorn your basic clothing needs will start popping in your head. A basic top in ivory, pencil skirt in charcoal grey accessorized with an ink blue pair of pointed toe heels and a satchel or messenger will make up for an effortless work look. If you are looking for a more exuberant look for your everyday needs, build your basic wardrobe with a mix of bright and neutral or bright and soft tones.What you'll need Basic tops and blouses Sweat shirts Tees Pencil skirts Maxi skirts Culottes Tailored pants Cropped pants A pair of dark washed and light washed jeans Trend alertCasual and minimal is actually the new black for this season. However, the rule has a stylish shift to it: the simpler the outfit, the dressier the accessories. However, for an everyday look, keep it subtle, without making anything look out of proportion. The table has all the right accessories for you to pick from. Keeping up with trends, the basic white button down is definitely a thing because the runways had them all, from shirts, dresses, to coats and jacket. The classic button down surely has elevated its way to the top.The pantone colors of this year: serenity and rose quartz can easily be integrated in your basic wardrobe because of their soothing yet versatile appeal. The colors can be worn both formally and casually. 2. Deal with dressyThis is the category where you can be as creative as you want. You can get your hands on colors, prints, textures, patterns, shimmer or just about anything that can easily work as fancy or vivid. For your rather dressier looks, go with jewel and bright tone. If you really need to turn the colors down, then go for pairing them with soft tones. Tangerine, blood orange, cranberry and emerald green are colors that have a quintessential appeal to them and are just the right hues for night and evening wear.What you'll need Dresses Skirts Bold prints Sequins Fringes Maxi Dresses LBDs LWDs Skirts Gowns Slip dresses Trend alertThere still is a love affair with the 70s going on in the fashion world. Designers for the season were particularly interested in incorporating the 90s and 70s with some modern alteration in their creations. Voluminous ruffles, Victorian and English floral prints, puffy sleeves, cropped details, fringed sequins, and the return of the slip dress all indicates that there is some serious 70s renaissance is happening.Make sure you have some romantic floral prints and dresses with bold stripes and solid color play hanging in your dressier section of the closet. Oh, and you may have not noticed but silk PJs with boisterous prints are now worn formally. So, if you really are going to go with the trends, choose the accessories and tones from the periodic table and invest in some glamorous silk PJs. A Spanish spin to prints and cuts was witnessed as a key trend on the runways: you can wear the trend through Spanish-looking prints in your dresses.For all the good reasons, off-the-shoulder outfits managed to stay in vogue for the season. So, if you catch your eyes on a ruffled off-the-shoulder top, get that! 3. Fix it up with the fixersThe fixers are more like completers—the cherry on top. Don't you always need a layer, a spring jacket, a cardigan or a belt to finish off the outfit details? Well, that's what this little section of your wardrobe will be based on. You would not need much to add to this part but make sure you choose the right colors so that one fixer can work well with a number of outfits.What you'll need A light spring jacket Simple pretty cardigan Chunky belts Scarves Trend AlertYou will be surprised, but jackets and cardigans are still going strong in spring. In fact, they will be gracing the streets this year, more than ever. Why? Because that's what we're seeing in fashion shows and on runways. Jackets, sweatshirts, oversized hoodies will be all you need—yes, you can leave your pants at home. Pair them with knee-high boots and stockings to give your legs some cover. As for belts, they are the ultimate fixer and your friend in sartorial needs.4. Accessorize for perfectionYour style equation is never complete without the right shoes, jewelry and bags. So, carefully plan this portion according to the table. You have a number of neutral and bright colors to pick your shoes and bags from. Take a look at the accessories in the periodic table, and you'll know what you need for your day-to-day outfits.What you'll need Bags Clutches Heels Chunky sandals Flats Watch Statement earrings and necklaces Delicate ear studs and necklaces Trend AlertThe trends in accessories are more or less the same; shoes get sequined embellishment stone details. However, the more chunky they are, the trendier. Thankfully, we're still not being too hard on ourselves and going for more flats than heels. As for bags, invest in a chic half-moon bag and some bold colored bags with funky details. The jewelry has a standout element, but they are not heavy on the wearer, so you are free to wear those statement earrings and on a regular day; nothing's better than a statement watch and delicate jewelry.Stay stylish divas, and get the table printed and pated on your wardrobe to minimize the struggle.Colors this season transcend cultural and gender norms. Vivid brights give way to excitement and optimism, though quiet stability prevails in this season's paletteFeatured photo credit: Sophie and Trey via sophieandtreym.com

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