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The periodic table of elements is the most important tool used in chemistry. To get the most out of the table, it's helpful to know the parts of the periodic table and how to use the chart to predict item properties. The periodic table sorts the elements by increasing the atomic number, which is the number of protons in the atom of an element. Rows in the periodic table are called points. All elements within a period share the same highest level of electronic energy. Columns in the periodic table are called groups. All elements of a group share the same number of valence electrons. The three main categories of elements are metals, non-metals and metalloids. Most of the elements are metals. Non-metals are located on the right side of the periodic table. Metalloids have properties of both metals and non-metals. The periodic table lists the chemical elements in order of increase in the atomic number, which is the number of protons in each atom of an element. The shape of the table and the way the elements are arranged has meaning. Each of the elements can be assigned to one of the three large categories of elements: with the exception of hydrogen, the elements on the left side of the periodic table are metals. In fact, hydrogen also acts as a metal, in its solid state, but the element is a gas at ordinary temperatures and pressures and shows no metallic character under these conditions. Metal properties include: metallic sheen elevated electrical and thermal conductivity hard-sided solids (mercury is liquid)usually ductile (which can be drawn in a wire) and malleable (which can be hammered into thin sheets) most have high melting points already lose electrons (low electron affinity)low ionization energies The two rows of elements under the body of the periodic table are metals. In particular, they are a collection of transition metals that are called lanthanide and actinide or rare earth metals. These elements are located below the table because there was no practical way to insert them into the transition metal section without making the table strange. There is a zigzag line to the right side of the periodic table that acts as a kind of boundary between metals and non-metals. The elements on both sides of this line show some properties of metals and some of the non-metals. These elements are metalloids, also called semimetals. Metalloids have varying properties, but often: metalloids have multiple shapes or allotropes can be made to conduct electricity under special conditions (semiconductors) The elements on the right side of the periodic table are non-metals. The non-metallic properties are: usually conductors poor in heat and electricity of ten liquids or gases at room temperature and metal shine at already gain electrons (high electron affinity)high ionization energy The arrangement of the periodic table organizes elements with related properties. Two general categories are groups and points: Element GroupsGroups GroupsGroups the columns in the table. Element atoms within a group have the same number of valence electrons. These elements share many similar properties and tend to act in the same way as each other in chemical reactions. Item Periods Rows in the periodic table are called points. The atoms of these elements all share the same highest level of electronic energy. You can use item organization in the periodic table to predict how elements will form bonds with each other to form compounds. Ion bondstionic bonds form between atoms with very different electronegative values. Ion compounds form crystalline lattices containing positively charged cations and negatively charged anions. Ion bonds are formed between metals and non-metals. Because the ions are fixed in place in a lattice, ion solids do not conduct electricity. However, charged particles move freely when ion compounds are dissolved in water, forming conductive electrolytes. Covalent bonds share electrons in covalent bonds. This type of bond is formed between non-metal atoms. Remember that hydrogen is also considered a non-metallic, so its compounds formed with other non-metals have covalent bonds. BondsMetals metal also bind to other metals to share valence electrons in what becomes a sea of electrons surrounding all affected atoms. Atoms of different metals form alloys, which have distinct properties from their component elements. Since electrons can move freely, metals promptly conduct electricity. Last updated on November 18, 2020 If you're like me and really like self-development, you've probably read many of the thousands of self-help books out there on the market. But even like me, you'll probably find all the information a bit overwhelming. That's why I wanted to do the job of taking the most important, life-changing lessons that I took from these books and condensing them into 50 key points. Here are 50 habits of successful people that you should learn:1. Believe It to See It Our mind tends to focus on what's happening around us and refuse to see what might happen. Only when you trust what is possible and dare to dream big, great things can happen for you.2. See problems as a wonderful giftAs others only see problems and give up, successful people use the problem as a lesson to find improvements in themselves or in the task at hand.3. Keep looking for solutionsEven if they are on their knees in problems, successful people will still focus on finding solutions.4. Remember that it's all about travel Success people are aware and methodical in creating their own success. They don't sit down to do the least hoping that success will find them.5. Feel fear and do it anyway There is so much fear on the way to success, but instead of letting fear control and limit them, successful people do a good job of just moving forward regardless.6. Always ask productive questionsIt's all about asking the right questions. Successful people make sure they're questions they raise for a more productive, creative and positive mindset in the future.7. Understanding the best waste of energy is complaining Successful people know that choosing to see the downside of things will only create a useless and unproductive state.8. Don't Play the Blame GameTaking responsibility for actions and outcomes is a form of empowerment on which you can build your success. While the act of blaming others or external circumstances takes away this emancipation. 9. Maximize your strengthsNot all successful people simply have more talent than others, but they use what they know they're good at achieving more successful results.10. Being in It to win Successful people are committed, productive and proactive. Instead of sitting around thinking too much and planning and over-planning a great idea, they just take a step toward it, no matter how small.11. He knows that success attracts success People who are successful surround themselves and look for like-minded people. They understand the importance of being part of a team and forge win-win relationships.12. Actually choose to succeedDreaming big is a huge part of success even if your dream seems impossible. Ambition is a mindset that must be a conscious daily choice.13. View, View, View! You have to see your success in the eyes of your mind even before it comes. Successful people clarify and get that certainty about how they want it to be their reality rather than just being viewers of life.14. Be an original one-off personsuccessful search for what works and then create a unique ride on it. Imitating only regurgitated the ideas of others without originality.15. The perfect time to act is now waiting for the right time to act is basically procrastinating wrapped in an excuse. Successful people know there's never a perfect time, so they might as well do it now.16. Continuing to learn, continuing to growRegling continues is the key to a successful life. Whether it's academics, life students, or usable learning, it's about expanding your knowledge and personal development.17. Always look on the bright side of lifeSuccessfully successful people have the ability to find positives in all people and circumstances, regardless of what.18. Did you have a bad day? Do it anyway! We all have bad moods, but it shouldn't be an excuse to stop everything. Give a bad mood just stop-start your life, slowing success to the end.19. Sometimes risky activity is neededCalculated risks are a must for success. It's about weighing up the pros and cons as you move forward with that element of trust. 20. Accepting the All TimeDealing challenge with head-to-head problems is a must to succeed. Even successful people need to challenges to improve.21. Make your fortune In the mindset of a successful person, there is no luck or destiny. They take control to actively and consciously create their best life.22. Turn on your initiativeAs many people are responsive, successful are proactive, taking measures before 23. Being the Master of your emotionsEas effectively in managing emotions is fundamental on the path to success. That doesn't mean successful people don't feel like all of us, but they're not slaves to their emotions.24. Champion in CommunicationConsciously working on effective communication skills brings anyone closer to success.25. Plan your life StrategicallySuccessfully people's lives are not a clumsy series of unplanned events and results, but they work methodically to turn their plans into reality.26. Get great in What You DoTo get great, you typically have to do things that most won't do. To be successful, you need to make difficult decisions and act on them is critical.27. Choose to live outside of your comfort zoneAs many people are addicted to pleasure and avoid pain and discomfort at all costs, successful people understand the value and benefits of working through the difficult things that most would avoid.28. Living according to fundamental values Successful people first identify their core values and what is important to them, so they do their best to live a life that reflects these values.29. Making Money Isn't EverythingMoney and success isn't interchangeable and the most successful people understand that. Putting money on a pedestal and equating it with success is a dangerous mindset to have. Success comes in many forms.30. Don't get carried awaySuccessfully people understand the importance of discipline and self-control and as a result are happy to take the least traveled route. 31. Self-esteem is not linked to successSuccessfully successful people are safe. They don't draw their self-esteem from what they own, who they know, where they live, or how they are.32. Kindness Breeds Kindness (And Success)Generosity and kindness are a common trait among long-term successful people. It's important to have the pleasure of helping others reach.33. More humility, less arrogance Successful people are humble and happy to admit and apologize for mistakes. That's because they're confident in their abilities. They are happy to learn from others and happy to make others look good rather than seek their own personal glory.34. Change opens new doors If they are successful they are adaptable and embrace change, while most are creatures of comfort and habit. They feel comfortable and embrace the new and the unknown.35. Success requires a healthy body It's not just how you think, it's about how you show up for success. Successful people understand the importance of being physically well, not for vain reasons, but because being in excellent condition creates a better personal life for success.36. Laziness just doesn't exist People of are never considered lazy. Yes, they can relax when they need it, but working hard is their game.37. Resilience from bucket loadWhen difficulty strikes, most would throw in the towel, but successful people are just warming up.38. Feedback is just another chance to improve the way people people feedback determines their potential for success. Being open to constructive criticism and acting on it to improve is more seen in those who are successful.39. Your atmosphere attracts your tribe If people come out with toxic and negative people, then they need to take a look at themselves. Successful people go out with others who are positive and supportive.40. Can't control it? Forget that successful people don't invest time or emotional energy in things they have no control over.41. Swimming against the currentSuccessfully successful people are not people who want and do not need constant approval from others to move forward. 42. Time alone is precious timeMore self-esteem means being more comfortable with your company. Successful people are happier and see the value of spending time alone.43. Self-Standard is higher than many have the choice to set high standards for themselves. Successful people do this, which in turn produces more commitment, more momentum, better work ethic, and of course, better results.44. Failure is not rationalizedAs many use age, health, lack of time, bad luck, or lack of opportunity to explain their failure, the key to success is to find a way to succeed despite facing these challenges.45. Free time is an important part of a routineHaving a switch off and taking time to do things that make them happy is a common trait of a successful person. Check out the importance of idle time planning here.46. Career is not who you are, it's what you do Successful people know that their career is not their identity. They are multidimensional and do not define themselves by their work.47. Be only interested in the path of resistanceBeing as most people look for the easiest way or shortcut, successful people are more interested in the most effective way. They seek the course of action which will produce the best long-term results (48). Follow ThroughMany spends his life starting things that never end, but successful people do the job. Even when excitement and novelty have worn off, they continue to follow and finish.49. Invest in all your dimensionsThis are not only physical and psychological beings, but also emotional and spiritual creatures. Successful people consciously work to be healthy and productive at all levels.50. Put your money where your mouth isTo achieve success, it is important to practice what you preach. Successful people don't talk about theory, they live reality. Here it is, a summary of what I learned from self-help books. But, of course, you need to start taking action so that you get closer to success as well. Bonus: 5 bad habits to quitMore on success Photo credit Juan Jose via unsplash.com unsplash.com unsplash.com