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Atomic structure and periodic table review answers

The atoms are extremely small. They can be as small as 10⁻⁸ centimeters, or 0.1 nanometer, in diameter. Atoms are made of three different types of subatomic particles: neutrons, protons and electrons. The nucleus, or center of an atom, is made of protons, which are positively charged and neutron-charged particles, which are neutral (they have no charge). Electrons are negatively charged particles. Each atom has the same amount of protons and electrons, so each atom has a neutral charge. Depending on how many neutrons, protons and electron atoms have, their properties vary. What element an atom is determined by how many protons it has. The number of protons in the nucleus of a given atom is called its atomic number, and it is these atomic numbers by which the elements of the periodic table are classified. For example, a hydrogen atom has a proton in its nucleus and is therefore called number one in the periodic table. Helium has two protons so its atomic number is two, and so on. Isotopes are atoms that look and act the same but have different numbers of neutrons in their nuclei. For example, the atomic number of hydrogen is always one because all hydrogen atoms have a proton. However, several isotopes of hydrogen, such as H-2, have a proton and a neutron; The H-3 has a proton and two neutrons, etc. The sum of the protons and neutrons in the nucleus of an atom is its atomic mass. Thus, the atomic mass of the isotope H-2 is two, the atomic mass of the isotope H-3 is three, and so on. Towards the end of the 19th century, science was barreling at an impressive rate. Automobiles and airplanes were about to change the way the world was moving, and electric power was making its way into more and more homes. However, even the next day's scientists still saw electricity as vaguely mystical. It wasn't until 1897 that scientists discovered the existence of electrons - and that's where the modern era of electricity begins. Matter, as you probably know, consists of atoms. Break something down to small enough pieces and finish with a core orbited by one or more electrons, each with a negative charge. In many materials, electrons are closely tied to atoms. Wood, glass, plastic, ceramics, air, cotton -- these are all examples of materials in which electrons stick with their atoms. Because these atoms are so reluctant to share electrons, these materials can't drive electricity very well, if at all. These materials are electrical insulating. Most metals, however, have electrons that can separate from their atoms and zip around. These are called free electrons. Loose electrons make it easy for electricity to flow through these materials, so they are known as electrical conductors. They make electricity. Moving electrons transmit electrical energy from one point to another. Some of us HowStuffWorks.com like to think about as domestic dogs and electrons as a case of fleas. Dogs that lived inside or within a fenced area, thus keeping the annoying fleas contained, would be the equivalent of an electrical insulator. Free roaming mutts, however, would be electrical drivers. If you had a neighborhood of inner, pampered pugs and a neighborhood of non-defensive basset dogs running wild, what group do you think could propagate a flea outbreak the fastest? Therefore, electricity needs a driver to move. There must also be something to make the flow of electricity from one point to another through the driver. One way to get the flow of electricity is to use a generator. It's human nature organizing things. Chefs carefully organize their species into various groups, either alphabetically or according to how often they are used. Children pour their piggy banks and order their riches into piles of pennies, nickels, dimes and quarters. Even items in a grocery store are grouped in a certain way. Go down the international aisle and you'll find packets of Chinese egg noodles sitting next to boxes of taco shells. Chemists, as it turns out, are also organizational garbage. They look for similar physical and chemical properties between the elements, the basic shapes of matter, and then try to fit them into similar groups. Scientists began trying to organize the elements in the late 1800s when they knew about 60. Their efforts, however, were premature, as they lacked key information: the structure of the atom. Although initial efforts failed, an attempt by a Russian chemist named Dmitry Mendeleev showed much promise. Although Mendeleev was not 100 percent correct, his approach laid the foundation for what is now the modern periodic table of elements. Today, the periodic table organizes 112 named items and recognizes several more unnamed. It has become one of the most useful tools in chemistry, not only for students, but also for working chemists. It classifies the elements according to their atomic number (rather), 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 what exactly is this feat of the organization? Continue reading as we examine the history, organization and uses of this most practical chemical tool. Last updated on November 18, 2020 If you're like me and really into self development, chances are you've read many of the thousands of self-help books on the market. But also like me, I probably find all the information a little overwhelming. That's why I wanted to the task without self-harming myself from taking the most important and changing lessons I have drawn from these books and condensing them into 50 key points. Here are 50 habits of successful people that you should Believe it to see that our minds tend to focus on what is happening around us and refuse to see what might happen. Only when you trust what is possible and dare to dream big, can great things happen for you.2. See problems as a wonderful gift While others only see problems and give up, successful people use the problem as a lesson to find improvement in themselves or task at hand.3. Keep Looking for SolutionsEven if they are knees deep in trouble, successful people will still put their entire focus on finding solutions.4. Remember that it's all about travel Successful people are aware and methodical in creating their own success. They don't sit around doing the least, hoping success finds them.5. Feeling fear and doing it anywayThere is so much fear on the road to success, but instead of letting them control fear and limit them, successful people do a good job of just forging ahead regardless.6. Always asking productive questions It's about asking the right questions. Successful people make sure that they are questions that will ask for information for a more productive, creative and positive mindset moving forward.7. Understanding the best waste of energy is complaining Successful people know that choosing to see the negative side of things will only create a useless and unproductive state.8. Don't play blame GameTaking responsibility for actions and results is a form of empowerment that you can build your success on. While the act of blaming others or external circumstances takes this empowerment away from you. 9. Maximize your strengths Not every successful person is simply more talented than the rest, but they use what they know to be good at achieving more successful results.10. Being in it to earn itsuccessful people are busy, productive and proactive. Instead of sitting around over-thinking and over-planning a great idea, they just take a step towards it no matter how small.11. Know that success attracts achievements People who succeed surround themselves and look for like-minded people. They understand the importance of being part of a team and forging win-win.12 relationships. Actually choosing to be great SuccessfulDreaming is a massive part of succeeding, even if your sleep seems impossible. Ambition is a mindset that should be a daily conscious choice.13. View, View, View! You have to see your success in the eye of your mind even before it arrives. Successful people clarify and have this certainty about what they want their reality to look like rather than be mere viewers of life.14. Being a single originalSuccessful people look for what is working and then create a unique twist on it. Imitate only regurgitates the ideas of others without originality.15. The perfect time to act is now waiting for the right time to act is basically procrastination wrapped in an excuse. Successful people know never a perfect time so they can also do it now.16. Continuing to learn, continuing to grow Continuous learning is the key to a successful life. Whether academic, being a life student or useful learning, it's about expanding your knowledge and personal development.17. Always look on the bright side of successful life people have the ability to find positive aspects in all people and circumstances no matter what.18. Have a bad day? Do it anyway! We all have a bad mood, but it shouldn't be an excuse to stop it all. Giving him a bad mood just stopped his life, slowing down the success way down.19. Sometimes business risks are neededCalculated risks are a necessity for success. It's about weighing the pros and cons as you move forward with this element of trust. 20. Accepting All TimeDealing Challenge with head-on problems is a must succeed. Successful people also face challenges in order to improve themselves.21. Make your own luck They get a successful person's mindset, there is no such thing as luck or destiny. They take control to actively and consciously create their own best life.22. Ignite your initiative While many people are reactive, successful people are proactive -- take action before they have to.23. Being the master of your emotionsSefect in managing emotions is key on the road to success. That doesn't mean successful people don't feel like we all do, but they just aren't slaves to their emotions.24. Champion in CommunicationConsciously working on effective communication skills gets anyone closer to success.25. Plan Your Life Strategically The lives of unsuccessful people are not a clumsy series of unplanned events and results, they work methodically to turn their plans into a reality.26. Becoming exceptional in what you do become exceptional, you usually have to do things that most won't. To succeed, difficult decisions must be made and acting on them is crucial.27. Choose to live outside your comfort zone, while 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 most would avoid.28. Living by basic values Successful people first identify their core values and what is important to them, and then do their best to live a life that reflects those values.29. Realizing that money is not TotMoney and success are not interchangeable and the most successful people understand this. Putting money on a pedestal and equating it to success is a dangerous mindset to have. Success comes in many forms.30. Don't get carried away people understand the importance of discipline and self-control and are therefore happy to take the path less traveled. 31. Self-esteem is not linked to success Successful people are safe. They do not derive their self-esteem from what who they know, where they live or what they look like.32. Kindness Breeds Kindness (And Success)Generosity and kindness is a common trait among long-term successful people. It is important to take pleasure in helping others achieve.33. More humility, less arroganceSuccessful people are humble and happy to admit and apologize for mistakes. That's because they're confident in their ability. They are happy to learn from others and happy to make others look good instead of looking for their own personal glory.34. Change Opens New Doors People who succeed are adaptable and embrace change, while most are creatures of comfort and habit. They feel comfortable with, and embrace, the new and the unknown.35. Success requires a healthy body It's not just as you think, it's about how it shows for success. Successful people understand the importance of being physically well, not for vanitose reasons, but because being in peak conditions creates a better personal life for success.36. Laziness Simply does not exist Successful people are never considered lazy. Yes, they can relax when they need it, but working hard is their game.37. Resilience by bucket load When difficulty hits, most would throw in the towel, but successful people are warming up.38. Feedback is just another opportunity to improve How people react to comments determines their potential for success. Being open to constructive criticism and acting on it to improve is the most viewed in those who succeed.39. Their vibe attracts their tribeSi people are dating toxic and negative people, then they have to take a look at themselves. Successful people hang 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 of.41. Swimming against the tideSuccessful people are not people-pleasers and do not need the constant approval of others in order to move on. 42. Only time is valuable TimeMore self-esteem means being more comfortable with your own company. Successful people are happier and see the value in spending time alone.43. Self-Standard is taller than MostEveryone has the option of setting high standards for themselves. Successful people do, which in turn produces more commitment, more momentum, a better work ethic and, of course, better results.44. Failure is not rationalized While many use age, health, lack of time, bad luck, or lack of opportunities to explain their failure, the key to success is to find a way to succeed despite facing these challenges.45. Down 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 success. Check out here The Importance of Programming Downtime.46. Career is not who you are, it's what you makeSuccessful people know career is not his identity. They are multidimensional and are not defined by their work.47. Being interested in just the path of resistance, while most people look for the easiest way or shortcut, successful people are more interested in the most effective way. They are looking for the course of action that will produce the best long-term results.48. Follow through DeMany spending his life starting things that never end, but successful people get the job done. Even when the excitement and novelty has worn off they still follow through and finish.49. Investing in all its dimensions We are not only physical and psychological beings, but emotional and spiritual creatures too. Successful people consciously work on being healthy and productive at all levels.50. Putting your money where your mouth isTo get success, it's important to practice what you preach. Successful people don't talk about theory, they live reality. So there you have it, a summary of what I've 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 Quit Smoking More About Success Recent Photo Credit: Juan Jose through unsplash.com unsplash.com

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