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Atomic structure worksheet answer key 7th grade

Atoms are made from protons, neutrons and electrons. The periodic table arranges elements according to their atomic size and other properties. Lesson PDFs Generate Student Link Each element has a certain number of protons, electrons and neutrons. For example, carbon has 6 protons, 6 electrons and 6 neutrons. Oxygen has 8 protons, 8 electrons and 8 neutrons.The Periodic Table of Elements is a big chart that lists all the elements that have been discovered so far. It gives us a lot of information about the elements like the name, symbol as well as its atomic structure and reactivity. What would you see if you looked at iron filings with a Scanning Tunneling Microscope?ANSWERSince the Scanning Tunneling Microscope is so powerful, you would see tiny spheres which are iron atoms (the smallest possible unit of iron). Describe the different particles that make up an atom.ANSWERAn atom is made up of 3 particles; protons, neutrons and electrons. Protons are positively charged and are positioned in the center of an atom. Neutrons are not charged and are also located in the center of an atom. Electrons orbit the center very quickly and are negatively charged. What are some examples of elements?ANSWERSome examples of elements are gold, iron, copper and carbon. Anything on the periodic table is an element. All elements are pure substance made up of only one type of atom. How can you use the Periodic Table of Elements to help you find information about specific elements?ANSWERThe Periodic Table of Elements shows the names and abbreviations for each element. It also tells you how many protons, neutrons and electrons each atom has. The atomic number of each element corresponds with how many protons and electrons an element has. We cover more details about the periodic table in our lesson called "The Periodic Table." How did scientists conclude that most of an atom is empty space?ANSWERIn 1908, Ernest Rutherford did an experiment where he shot beams of radiation through gold foil which is made up of gold atoms. Most of the radiation went right through the gold foil, while only a tiny fraction of the beams bounced back. This supports the atomic model with most of the mass at the center with electrons orbiting far away from it. What are some different careers available for people that want to study atoms and molecules?ANSWERScientists in the medical field use molecules on a regular basis to develop new medicines to help fight diseases. Specifically, biomedical scientists may be able to replicate naturally occurring molecules to help people with deficiencies. ¡Bienvenido a Generation Genius en español!Todos los videos de ciencia ahora doblados a español, incluyendo los materiales para maestros. ¡A disfrutar!Nuestros videos de matemáticas son nuevos y se están traduciendo. (Matemáticas en español en 2022) XWhat three types of particles make up an atom? What are their charges?How is a carbon atom different from a hydrogen atom?What is the Rutherford experiment? How did it work and what did it show? You can create printable tests and worksheets from these Grade 7 Atomic Structure questions! Select one or more questions using the checkboxes above each question. Then click the add selected questions to a test button before moving to another page. Previous Page 1 of 2 Next Previous Page 1 of 2 Next If you're seeing this message, it means we're having trouble loading external resources on our website. If you're behind a web filter, please make sure that the domains *.kastatic.org and *.kasandbox.org are unblocked.

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