
Kid's Discover Magazine

Questions on ATOMS

Chemist: Heep
Date: _____ - _____ - _____ HR: _____

Directions: After reading the magazine, answer the following questions or fill in the blanks with the most appropriate vocabulary.

- p.2 1. Approximately how many atoms fit on the head of a pin? many millions
- p.4 2. Who first wrote about atoms? When? Who → Democritus
When → 530 B.C.
- p.5 3. Who discovered neutrons? When were they discovered?
James Chadwick discovered neutrons in 1932.
- p.5 4. Who determined how to measure the mass of an atom? Amedeo Avogadro
- p.5 5. Who named the nucleus and protons of an atom? Ernest Rutherford
- p.2 6. What is an atom? An atom is mostly empty space with a nucleus, proton(s), neutron(s), & electrons. Atoms make up everything in our world.
- p.3 7. What is a nucleus?
The nucleus is the dense central core of an atom.
- p.6 8. How are the crumbs of burnt toast elements?
Crumbs of burnt toast are actually clumps of carbon atoms.
- p.6 9. How do atoms differ? Atoms differ in: atomic #, mass, # of protons & electrons
- p.6 10. What are the four elements that make up most living things?
oxygen carbon hydrogen nitrogen
- p.7 11. Hydrogen is the most common element in the universe.
- p.7 12. A molecule is formed when 2 or more atoms chemically bond together. Give an example.
2 atoms of hydrogen & 1 atom of oxygen bond together to form water. (H₂O)
- p.8 & 9 13. How are atoms used in the world?
Atoms make up everything living & non-living. They are used to make light bulbs, stove fires, to date fossils, & find out when an animal died.
- p.10 14. What is the periodic table? How is it organized? → by its atomic weight
It is a table of all of the elements discovered. It is organized in rows, columns, atomic #s, metals/non-metals, & if it is a solid, liquid, gas, or man made.
- p.10 & 11 15. List 2 things that you discovered about the periodic table, from pages 10 & 11. Answers will vary