

Webquest: Atomic Theories and Models

Answer these questions on your own, USING COMPLETE SENTENCES where appropriate (most of the questions, except tables and drawings). If you require more space, please complete on another piece of paper.

Atom Basics: Go to: <http://www.ck12.org/atom-basics.html> and read the "And you thought you were strange" section to answer the following questions (put answers in the table).

1. What are the three subatomic particles that all atoms are made of?
2. Where are each of the three particles located within the atom?
3. What is the electrical charge of each particle?

1. The 3 subatomic particles	2. Location within the Atom	3. Electrical Charge
Electrons	Shell/Orbital's around Nucleus	Negative
Protons	Nucleus	Positive
Neutrons	Nucleus	Neutral

Early Ideas About Atoms: Go to <http://galileo.phys.virginia.edu/classes/252/atoms.html> and read the section on "Early Greek Ideas" in order to answer the following questions:

4. What was the "basic idea" about matter that Leucippus and Democritus proposed?

The basic idea was that if you could look at matter on smaller and smaller scales (which they of course couldn't) ultimately you would see individual atoms - objects that could not be divided further (that was the definition of atom).

5. How did they use atoms to explain different physical properties?

The different physical properties - color, taste, and so on - of materials came about because atoms in them had different shapes and/or arrangements and orientations with respect to each other.

6. How were the ideas of these two men received by Aristotle, and what was the result on the progress of atomic theory for the next 2,000 years?

100 B.C. - Aristotle modified an earlier theory that matter was made of four "elements": earth, fire, water, air. This gave rise to the alchemists (who searched for a way to turn lead to gold).

John Dalton's Atomic Theory: Go to

<http://chem.lsu.edu/~cspaldin/C151/webnotes/composition Dalton.html> and use the information there to answer the following questions:

7. When did Dalton form his Atomic Theory?

Dalton published Atomic Theory in 1808.

8. What are the four components of Dalton's Atomic Theory?

1) All matter is made of atoms. Atoms are indivisible and indestructible. 2) All atoms of a given element are identical in mass and properties. 3) Compounds are formed by a combination of two or more different kinds of atoms. 4) A chemical reaction is a rearrangement of atoms.

Webquest The Atom Answer Key

M Woodhall



Webquest The Atom Answer Key:

Teaching Children Science Joseph Abruscato, 2001 This truncated paperback volume is composed of strategies and techniques for teaching science derived from the fifth edition of Joseph Abruscato's successful text Teaching Children Science A Discovery Approach The first nine chapters of Teaching Children Science are included in this new title to provide students with a discovery approach to promote the teaching of the concepts skills and attitudes of science in the classroom These nine basic science teaching methods chapters cover strategies and techniques for teachers to incorporate cooperative learning questioning and active listening in their classrooms The author also covers planning and managing discovery based units assessing students learning and understanding the preparation of Internet based Science WebQuests and integrating science across the curriculum **Secondary Teachers Guide to Free Curriculum Materials** ,2010

Unveiling the Magic of Words: A Report on "**Webquest The Atom Answer Key**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Webquest The Atom Answer Key**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect on the souls of its readers.

<http://www.frostbox.com/data/detail/default.aspx/Solution%20Manual%20Segui.pdf>

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