










Isotopes

Are all atoms of an element alike?

Why?

The following activity will help you learn the important structural characteristics of an atom. How do we classify atoms? How does the combination of subatomic particles affect the mass and charge of an atom? What are isotopes? This is just a sampling of what we will address. Throughout this activity you will want to keep both Model 1 and a periodic table handy.

Model 1

Isotopes of Hydrogen			
Symbol	${}^1_1\text{H}$	${}^2_1\text{H}$	${}^3_1\text{H}$
Atomic Diagram with Name	 <p>Hydrogen-1 (protium)</p>	 <p>Hydrogen-2 (deuterium)</p>	 <p>Hydrogen-3 (tritium)</p>
Number of Protons	1	1	1
Number of Neutrons	0	1	2
Isotopes of Carbon			
Symbol	${}^{12}_6\text{C}$	${}^{13}_6\text{C}$	${}^{14}_6\text{C}$
Atomic Diagram with Name	 <p>Carbon-12</p>	 <p>Carbon-13</p>	 <p>Carbon-14</p>
Number of Protons	6	6	6
Number of Neutrons	6	7	8
Isotopes of Magnesium			
Symbol	${}^{24}_{12}\text{Mg}$	${}^{25}_{12}\text{Mg}$	${}^{26}_{12}\text{Mg}$
Atomic Diagram with Name	 <p>Magnesium-24</p>	 <p>Magnesium-25</p>	 <p>Magnesium-26</p>
Number of Protons	12	12	12
Number of Neutrons	12	13	14

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Answers To Isotopes Pogil

Richard Samuel Moog



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Transforming Urban Education Kenneth Tobin, Ashraf Shady, 2014-04-03 Transformations in Urban Education Urban Teachers and Students Working Collaboratively addresses pressing problems in urban education contextualized in research in New York City and nearby school districts on the Northeast Coast of the United States The schools and institutions involved in empirical studies range from elementary through college and include public and private schools alternative schools for dropouts and museums Difference is regarded as a resource for learning and equity issues are examined in terms of race ethnicity language proficiency designation as special education and gender The contexts for research on teaching and learning involve science mathematics uses of technology literacy and writing comic books A dual focus addresses research on teaching and learning and learning to teach in urban schools Collaborative activities addressed explicitly are teachers and students enacting roles of researchers in their own classrooms cogenerative dialogues as activities to allow teachers and students to learn about one another s cultures and express their perspectives on their experienced realities and negotiate shared recommendations for changes to enacted curricula Coteaching is also examined as a means of learning to teach teaching and learning and undertaking research The scholarship presented in the constituent chapters is diverse reflecting multi logicity within sociocultural frameworks that include cultural sociology cultural historical activity theory prosody sense of place and hermeneutic phenomenology Methodologies employed in the research include narratology interpretive reflexive and authentic inquiry and multi level inquiries of video resources combined with interpretive analyses of social artifacts selected from learning environments This edited volume provides insights into research of places in which social life is enacted as if there were no research being undertaken The research was intended to improve practice Teachers and learners as research participants were primarily concerned with teaching and learning and as a consequence as we learned from research participants were made aware of what we learned the purpose being to improve learning environments Accordingly research designs are contingent on what happens and emergent in that what we learned changed what happened and expanded possibilities to research and learn about transformation through heightening participants awareness about possibilities for change and developing interventions to improve learning

Handbook of Isotopes in the Cosmos Donald D. Clayton, 2003-09-11 An information resource about the isotopes and their place in the cosmos

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