TEACH CHEMISTRY THIS WAY

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Chemistry is a fundamental branch of science that plays a crucial role in our daily lives. From the food we eat to the medicines we take, chemistry is everywhere. In today's world, where scientific advancements are rapidly shaping our society, it is essential that chemistry education keeps pace with these changes. To effectively teach chemistry in today's world, educators need to focus on promoting practical applications, integrating technology, fostering critical thinking, and emphasizing sustainability.

One key aspect of teaching chemistry in today's world is highlighting its practical applications. By connecting the concepts taught in the classroom to real-world scenarios, educators can engage students and help them understand the relevance of chemistry in their lives. For example, lessons can focus on the chemistry behind environmental issues, such as air pollution or water contamination. This approach not only enhances students' knowledge but also empowers them to make informed decisions and take action to address these challenges.

Integrating technology is another essential element of teaching chemistry in today's world. Technology has revolutionized scientific research, and it can greatly benefit chemistry education as well. The use of computer simulations, virtual laboratories, and interactive software can provide students with a hands-on experience, even when access to physical laboratories is limited. Additionally, technology can facilitate data analysis, visualization, and modeling, enabling students to explore complex chemical phenomena and develop a deeper understanding of the subject.

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Furthermore, teaching chemistry in today's world should emphasize critical thinking and problem-solving skills. Chemistry is a discipline that requires analytical thinking and the ability to apply knowledge to solve practical problems. By providing students with opportunities to engage in inquiry-based learning and hands-on experiments, educators can develop these crucial skills. Encouraging students to ask questions, propose hypotheses, and design experiments fosters a deep understanding of the scientific method and prepares them for future scientific exploration.

An essential aspect of teaching chemistry in today's world is emphasizing sustainability. With increasing concerns about climate change and environmental degradation, the role of chemistry in creating more sustainable solutions is paramount. Educators should focus on teaching students about green chemistry principles, which promote the development of chemical processes that minimize environmental impact. By exploring topics such as renewable energy sources, recycling, and sustainable materials, students can appreciate the role of chemistry in addressing global challenges and contribute to a more sustainable future.

Moreover, teaching chemistry in today's world should encourage collaboration and the integration of interdisciplinary knowledge. Chemistry is intricately linked to other scientific disciplines, such as biology, physics, and environmental science. By incorporating interdisciplinary projects and promoting collaboration among students, chemistry education can foster a holistic understanding of the natural world. This approach allows students to perceive connections between different scientific fields, encouraging a more comprehensive and interconnected understanding of chemistry.

In conclusion, teaching chemistry in today's world requires a holistic approach that highlights practical applications, integrates technology, fosters critical thinking, and emphasizes sustainability. By connecting chemistry concepts to real-world scenarios, educators can enhance students' engagement and their understanding of chemistry's relevance. Integrating technology facilitates hands-on experiences and enables students

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to explore complex phenomena. By promoting critical thinking and problem-solving skills, students develop a deeper understanding of the scientific method. Emphasizing sustainability fosters an appreciation for chemistry's role in addressing global challenges. Lastly, encouraging collaboration and interdisciplinary knowledge integration enhances students' overall understanding of chemistry and its connections to other scientific disciplines. By embracing these principles, educators can equip students with the knowledge and skills needed to navigate the complexities of chemistry in today's rapidly evolving world.

References:

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