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KIMYO YO'NALISHI
UCHUN INGLIZ TILI
(Darsiik)

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ABSTRACT

"English for Chemistry" is a comprehensive textbook designed to help chemistry students, researchers, and professionals improve their English language skills in the context of their chosen field. The textbook is organized into 36 thematic chapters, each focusing on a particular area of chemistry, as well as dedicated sections on grammar, vocabulary, and pronunciation.

The journey begins with an introduction to the basic English language skills and scientific vocabulary necessary for studying chemistry. As students progress through the textbook, they explore a wide range of topics, from the scientific method and laboratory equipment to elements, compounds, and chemical reactions. These foundational chapters are designed to strengthen their understanding of the key concepts and principles in chemistry, while also enabling them to practice and enhance their English language skills in a scientific context.

As students delve deeper into the textbook, they encounter more advanced topics, such as thermochemistry, gases, solutions, acids and bases, and chemical equilibrium. These subjects provide a well-rounded understanding of chemistry and allow them to confidently discuss and explain these concepts in a professional setting.

In addition to these core chemistry topics, the textbook also covers specialized areas of chemistry, including organic chemistry, biochemistry, environmental chemistry, materials science, and analytical chemistry, among others. By examining the diverse applications of chemistry across various industries and fields of research, students gain a deeper appreciation for the importance of effective communication in English for chemistry professionals.

The grammar, vocabulary, and pronunciation sections of the textbook are designed to complement the chemistry content and support the development of students' English language skills. These sections cover essential aspects of English grammar, technical, academic, and general vocabulary. The pronunciation section

provides guidance on the pronunciation of technical terms, intonation patterns in sulentific communication, and accent reduction strategies.

"English for Chemistry" aims to provide students with a comprehensive, inventible, and engaging resource to support their journey towards mastery of the limital language within the field of chemistry. Whether they are a student imburking on their studies, a researcher seeking to expand their knowledge, or a professional looking to enhance their communication skills, this textbook offers a would of information, guidance, and practical tools to help them achieve their multi-limital professional professional looking of chemistry, they will be better equipped to engage with the global alternative community, share their ideas, and contribute to the ongoing advancement of human knowledge.

ANIOTATSIYA

"Kimyo yo'nalishi uchun ingliz tili" - bu kimyo fakulteti talabalari, tuliliqotchilar va mutaxassislarga o'zlari tanlagan yo'nalish bo'yicha ingliz tili tu nikmalarini oshirishga yordam berish uchun mo'ljallangan keng qamrovli turilikdir. Darslik 36 ta mazvudan iborat bo'lib, ularning har biri kimyoning mu lum bir sohasiga, shuningdek grammatika, lug'at va talaffuzga bag'ishlangan har limlarga qaratilgan.

Darslik asosiy ingliz tili ko'nikmalari va kimyoni o'rganish uchun zarur lulum llmiy lug'at bilan tanishishdan boshlanadi. O'quvchilar darslik bilan lulum ekan, ilmiy metod va laboratoriya jihozlaridan tortib elementlar, lulumulur va kimyoviy reaksiyalargacha bo'lgan turli mavzularni o'rganadilar. Mavulur kimyo fanidagi asosiy tushunchalar va tamoyillar haqidagi umlunchalarini mustahkamlash, shu bilan birga ularga ingliz tilini ilmiy hutokuda amaliyotda qo'llash va faollikni oshirishga imkon berish uchun hut ludlangan.

Tulabalar darslikni chuqurroq oʻrganish jarayonida termokimyo, gazlar, olumlar, kislotalar va asoslar, kimyoviy muvozanat kabi ilgʻor mavzularga duch tulihadl. Ushbu fanlar kimyo haqida har tomonlama tushuncha beradi va ularga ushbu tushunchalarni professional sharoitda ishonchli tarzda muhokama qilish va muhuntirishga imkon beradi.

Ushbu asosiy kimyo mavzularidan tashqari, darslik kimyoning hulloullauligan sohalarini, jumladan, organik kimyo, biokimyo, atrof-muhit limyoni, materialshunoslik va analitik kimyoni va boshqalarni o'z ichiga oladi. lurli nohulurda va tadqiqot sohalarida kimyoning turli xil qo'llanilishini o'rganib

chiqib, talabalar kimyo bo'yicha mutaxassislar uchun ingliz tilida samarali muloqot qilishning ahamiyatini chuqurroq tushunishadi.

Darslikning grammatika, lugʻat va talaffuz boʻlimlari kimyo fanining mazmunini toʻldirish hamda talabalarning ingliz tilini oʻrganish koʻnikmalarini rivojlantirishga yordam berishga moʻljallangan. Ushbu boʻlimlar ingliz tili grammatikasi, texnik, akademik va umumiy lugʻatning muhim jihatlarini qamrab oladi. Talaffuz boʻlimida texnik atamalarning talaffuzi, ilmiy muloqotdagi intonatsiya naqshlari va urgʻuni kamaytirish strategiyalari boʻyicha koʻrsatmalar berilgan.

"Kimyo yo'nalishi uchun ingliz tili" talabalarga kimyo sohasida ingliz tilini o'zlashtirish yo'lidagi harakatlarini qo'llab-quvvatlash uchun keng qamrovll, mavjud va qiziqarli manba bilan ta'minlashga qaratilgan. Ular o'rganishni endi boshlagan talaba bo'ladimi, o'z bilimini kengaytirishga intilayotgan tadqiqotchi yoki muloqot ko'nikmalarini oshirishga intilayotgan mutaxassis bo'ladimi, bu darslik ularga o'z maqsadlariga erishishda yordam beradigan ko'plab ma'lumotlar, yo'l-yo'riqlar va amaliy vositalarni taqdim etadi. Kimyo haqidagi tushunchalari bilan birgalikda ingliz tili ko'nikmalarini rivojlantirish orqali ular jahon ilmiy hamjamiyati bilan aloqa qilish, o'z g'oyalari bilan o'rtoqlashish va insoniyat bilimlarining doimiy rivojlanishiga hissa qo'shish ko'nikmalariga ega bo'ladilar.

Taqrizchilar:

N.Mahmudova — O'zbekiston davlat jahon tillari universiteti dotsenti, f.f.f.d.

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PREFACE

Chemistry, often referred to as the "central science," is a subject that bridges multiple scientific disciplines, including physics, biology, and materials science. The study of chemistry allows us to understand the natural world, leading to numerous advances in human knowledge and technology. As a result, chemistry has become an integral part of our everyday lives, shaping the world we live in and the products we consume.

With in the field of chemistry. With English being the predominant language for information, it is essential for chemistry students and professionals to develop the necessary language skills to effectively read scientific literature, write reports, and communicate with their peers in the English-speaking world.

This textbook, "English for Chemistry," is designed to provide a comprehensive and accessible guide for chemistry students, researchers, and molecular who seek to improve their English language skills in the context of their chosen field. The content of this book is organized into 36 thematic chapters, such addressing a particular area of chemistry, along with specific sections on manner, vocabulary, and pronunciation. This structure allows readers to focus on the specific topics that are most relevant to their needs, while also providing a manner than the section of the language skills required for success in chemistry.

The first chapter, "Introduction to English for Chemistry," serves as an annutual starting point for students who are new to the subject. It introduces the bank English language skills necessary for studying chemistry and familiarizes made with scientific vocabulary. As the textbook progresses, readers will explore a variety of chemistry topics, such as the scientific method, laboratory equipment and tuchniques, elements and compounds, and chemical reactions. These chapters moveled a solid foundation for understanding key concepts and principles in them lately, while also enabling readers to practice their English language skills in a midnific context.

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The textbook also covers specialized areas of chemistry, such as organic chemistry, biochemistry, environmental chemistry, materials science, and analytical chemistry, among others. These chapters provide insight into the diverse applications of chemistry in various industries and fields of research, highlighting the importance of effective communication in English for chemistry professionals.

In addition to the core chemistry content, this textbook also emphasizes the development of research and presentation skills, which are crucial for success in academia and industry. The chapters on research skills and presentation skills in chemistry provide practical guidance on conducting research, analyzing data, and presenting findings in a clear and engaging manner.

The grammar, vocabulary, and pronunciation sections of the textbook are designed to support the development of English language skills throughout the course. These sections cover essential aspects of English grammar, such as parts of speech, tenses, articles, passive voice, and conditionals, as well as technical, academic, and general vocabulary. The pronunciation section offers guidance on the pronunciation of technical terms, intonation patterns in scientific communication, and accent reduction strategies.

In conclusion, "English for Chemistry" is a valuable resource for chemistry students and professionals who wish to enhance their English language skills and expand their knowledge of the subject. By providing a comprehensive overview of the key concepts and principles in chemistry, along with targeted guidance on grammar, vocabulary, and pronunciation, this textbook empowers readers to effectively communicate their ideas and findings in the global scientific community.

It is our hope that this textbook will serve as a valuable resource for students, educators, and professionals alike, providing the tools and knowledge necessary for success in the exciting and ever-evolving field of chemistry. As you embark on your journey through the pages of this book, we encourage you to actively engage with the material, ask questions, and strive to apply your newly acquired knowledge and language skills in real-world contexts. This active engagement with the content will not only deepen your understanding of the subject matter but also help you develop essential critical thinking and professional pursuits.

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The authors of this textbook have drawn upon their extensive experience in the fields of chemistry and English language education to create a comprehensive and uner-friendly guide that is specifically tailored to the needs of chemistry modern and professionals. Each chapter has been carefully designed to present uniples concepts in a clear and accessible manner, with numerous examples, the truttons, and exercises to reinforce learning and facilitate the application of new knowledge.

furthermore, this textbook recognizes the importance of collaboration and minimum cutton within the scientific community. Throughout the chapters, you will find suppositions for group activities and discussions that encourage you to share multilitian, collaborate with your peers, and develop a deeper understanding of the material through the exchange of diverse perspectives. This collaborative approach multiply enhances your learning experience but also fosters the development of manufall teamwork and interpersonal skills that will serve you well in your materials and professional endeavors.

At you progress through the chapters, it is important to remember that handle is an ongoing process, and mastery of any subject requires dedication, modulation, and curiosity. It is our hope that this textbook will inspire you to infilitually challenge yourself, expand your knowledge, and refine your English manufact in the context of chemistry. By doing so, you will be better interpret to engage with the international scientific community, contribute to the international formula impact in your chosen that

In closing, we would like to express our gratitude to the many educators, manufacts, and professionals who have contributed their expertise and insights to the development of this textbook. Their dedication to the advancement of themselvy education and the promotion of effective scientific communication has the instrumental in shaping this valuable resource.

All you embark on your journey through "English for Chemistry," we wish the very success in your studies and future endeavors. We hope that this textbook will have as a trusted companion, providing you with the knowledge, skills, and milliding you need to excel in the dynamic and rewarding field of chemistry. And remember, the pursuit of knowledge and the development of effective minimum are lifelong endeavors; embrace the journey and continue to this wind evolve as a chemistry student, professional, and global citizen.