METHODS OF DEVELOPMENT OF LEXICAL COMPETENCE OF STUDENTS

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Abstract: Lexical competence, the proficiency in understanding and using specialized vocabulary, is a crucial aspect of students' academic success, particularly in disciplines such as chemistry. This competence extends beyond mere recognition of words, encompassing the accurate application of subject-specific terminology in various contexts. The integration of information technologies offers innovative avenues for enhancing students' lexical competence. Methods such as interactive e-learning platforms, gamification, and artificial intelligence tutoring systems provide personalized and engaging experiences. Augmented reality, virtual reality, and online collaboration further contribute to a dynamic learning environment. Continuous efforts by educators, including the use of mobile applications, multilingual content, and peer learning platforms, aim to refine and improve lexical competence. As students develop a strong command of subject-specific vocabulary, they are better equipped to comprehend course materials, communicate effectively, and navigate the language of their chosen academic discipline, ultimately enhancing their academic and professional readiness.

Key words: Lexical Competence, Information Technologies, E-learning Platforms, Gamification, Artificial Intelligence, Augmented Reality, Virtual Reality, Multilingual Content, Peer Learning, Specialized Vocabulary, Academic Success, Subject-Specific Terminology, Educational Technology, Student Proficiency

Lexical competence refers to a person's ability to effectively and appropriately use a specific set of words and vocabulary in a given language or field of study. In the context of students, lexical competence refers to their proficiency in understanding, recognizing, and using the vocabulary and terminology related to a particular subject or discipline. In academic settings, lexical competence is crucial for students to engage

with and comprehend course materials, textbooks, lectures, and discussions. It involves not only recognizing and understanding words but also using them accurately in both written and spoken communication within the specific context of a discipline. For example, in the field of chemistry, lexical competence would include a student's ability to understand and use the specialized vocabulary associated with chemical elements, compounds, reactions, and other concepts.

Lack of lexical competence can hinder students' academic performance as it may impede their ability to fully comprehend course content, communicate effectively with peers and instructors, and engage in discussions related to their field of study. Therefore, educators often focus on developing students' lexical competence through targeted vocabulary-building activities, exposure to relevant texts, and interactive learning experiences within their specific academic disciplines. Developing the lexical competence of chemistry students through information technologies involves integrating various tools and methods that leverage digital resources.

By combining methods and leveraging information technologies, educators can create a dynamic and interactive learning environment that enhances the lexical competence of chemistry students. Integrating these approaches ensures that students not only learn the terminology but also gain a deeper understanding of its practical applications in the field of chemistry. How to improve methods of development of lexical competence of chemistry students by means of information technologies?

Improving methods for developing the lexical competence of chemistry students through information technologies involves refining existing approaches and incorporating innovative strategies. Here are some suggestions to enhance the effectiveness of these methods:

1. **Customized E-learning Modules:** Develop tailored e-learning modules that cater to specific lexical challenges faced by chemistry students. These modules should incorporate adaptive learning technologies, providing personalized content based on individual student needs and progress.

2. **Gamification Elements:** Introduce gamification elements into online learning platforms. Design chemistry-related games, quizzes, and challenges that motivate

students to actively engage with and master the vocabulary. Gamified experiences can make learning more enjoyable and effective.

3. **AI-Powered Tutoring Systems:** Implement artificial intelligence (AI) tutoring systems that offer personalized feedback on students' language proficiency and chemistry knowledge. These systems can analyze students' responses, identify areas of improvement, and provide targeted exercises to enhance lexical competence.

4. **Augmented and Virtual Reality (AR/VR):** Integrate AR and VR technologies into chemistry education. Virtual labs, interactive 3D models, and immersive experiences can help students visualize complex chemical concepts and reinforce their understanding of associated terminology.

5. **Natural Language Processing (NLP):** Leverage NLP technologies to create intelligent language learning applications. These applications can assist students in understanding context-specific usage of chemistry terms, provide instant feedback on pronunciation, and offer language practice through interactive dialogues.

By combining these strategies, educators can create a comprehensive and technologically advanced approach to enhance the lexical competence of chemistry students. Regularly evaluating the effectiveness of these methods and making adjustments based on feedback and student outcomes will contribute to continuous improvement.

In conclusion, lexical competence is a vital aspect of students' language proficiency within a specific academic domain. It involves the ability to recognize, understand, and effectively use the specialized vocabulary and terminology associated with a particular subject or discipline. For students studying fields like chemistry, developing strong lexical competence is essential for comprehending course materials, participating in discussions, and expressing ideas accurately in both written and oral communication.

Educators play a crucial role in fostering lexical competence by incorporating targeted vocabulary-building activities, utilizing information technologies, and creating engaging learning experiences. The integration of e-learning platforms, interactive simulations, and collaborative projects can enhance students' understanding and usage of subject-specific terminology.

As students advance in their academic journey, continuous efforts to improve lexical competence contribute to their overall academic success. The ability to navigate and communicate within the unique language of their discipline not only facilitates learning but also prepares them for future professional endeavors where specialized vocabulary is integral to effective communication.

In summary, the development of lexical competence is an ongoing process that empowers students to engage meaningfully with the content of their academic field, fostering a deeper understanding of concepts and enabling them to communicate proficiently within their chosen discipline.

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