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DEVELOPING CRITICAL THINKING AND PROBLEM-SOLVING SKILLS IN GIFTED STUDENTS

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Annotation:

Individualized Learning: Tailoring education to the unique needs of talented and gifted students is highlighted. This involves recognizing and supporting diverse learning styles, ensuring a more personalized and effective educational experience.

Cross-Disciplinary Approach: The article emphasizes the integration of subjects and the encouragement of students to draw connections between different fields. This approach is essential for fostering a holistic problem-solving mindset that goes beyond the confines of individual subjects.

Real-World Applications: The significance of engaging students in challenging projects and real-world applications is underscored. This hands-on experience is crucial for developing practical problem-solving skills and preparing students for the complexities of real-life scenarios.

Socratic Dialogue and Debate: The article advocates for environments that encourage Socratic dialogue and debate. These intellectual exchanges not only stimulate critical thinking but also cultivate effective communication skills, essential for expressing and defending ideas.

Technology Integration: The use of technology, including interactive simulations and collaborative online platforms, is highlighted. This emphasis recognizes the role of technology in making learning dynamic, engaging, and relevant to the digital age.

Continuous Professional Development: The importance of ongoing professional development for educators is emphasized. This ensures that educators stay abreast of the latest pedagogical approaches and technologies, enabling them to effectively guide and inspire their gifted students.

Today, the development of students' critical thinking and problem solving is one of the challenges faced by teachers. to demand a responsible approach from school teachers in ensuring the intellectual growth of the students of the Presidential schools provided with the talent of the Presidential schools to the state, scientific provision. Critical thinking and problem-solving are critical insights that

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students must develop along with STEAM, which requires in-depth study of the sciences. That's how this guide goes about effective strategies for effective development in presidential schools, and I think any science teacher who reads the article will get some useful information to apply in their subject.

First of all, you need to understand what critical thinking and problem-solving skills are. Critical thinking involves the ability to analyze information, evaluate evidence, and draw reasonable conclusions. And problem solving requires applying critical thinking skills to overcome challenges and find innovative solutions. Both skills are essential for navigating the complexities of the modern world.

According to the 3rd stage of Bloom's taxonomy of education, learned knowledge should be adapted to individual needs, and learned knowledge is effective only when it is truly applied in real life. In every school, teachers should also focus on gifted students and explore individualized instructional strategies to optimize each student's potential. This approach includes a variety of learning styles, including recognition and support, providing challenging and thought-provoking tasks, and encouraging independent inquiry.

Currently, the integration of interdisciplinary education is one of the main shortcomings of the educational system. In order to improve critical thinking and problem-solving skills, President's schools have begun to focus on interdisciplinary education and apply this approach in practice. Integrating subjects and encouraging students to make connections between disparate areas fosters a holistic approach to problem solving. This approach prepares students for real-world problems, where solutions often require synthesizing knowledge from different fields.

Modern methodology calls for conducting the lesson in the framework of project-based education. Encouraging them to work on complex projects and engaging them in real-life events is important in developing their critical thinking and problem-solving skills. These projects should serve to foster cooperation, creativity and independent thinking. By solving real-world problems, students develop resilience and the ability to adapt their problem-solving skills to different contexts.

Special attention should be paid to creating a discussion and discussion environment in the lesson. In presidential schools, there are many activities that encourage open communication and discussions, as well as extra lessons. These intellectual exchanges not only encourage critical thinking, but also teach students to freely express and defend their opinions. Participating in disagreements with

mutual respect also develops a culture of intellectual curiosity and a culture of openness to different points of view, and improves problem-solving skills.

The use of technology and interactive learning in educational institutions is becoming more and more popular, and the integration of technology into the educational process is not only a demand of the time, but also a powerful tool for developing critical thinking and problem-solving skills. Interactive simulations, virtual experiences, and collaborative online platforms allow students to apply theoretical knowledge in practical settings. These processes activate students and develop the ability to continuously learn and adapt.

In order to be able to apply such drastic but most important educational approaches in the education system, first of all, it is necessary to pay serious attention to the professional development of pedagogues, and all school pedagogues should have continuous professional development and organized for them. courses, trainings based on specific plans, quality and conducted by experts who can provide a clear road map to achieve the goal set in the lesson, in addition, trainings are based on the latest pedagogical approaches, including new educational technologies and should be geared toward understanding the unique needs of gifted students. Only then can teachers inspire their students and guide them to intellectual excellence.

In conclusion, not only every teacher, but also every student, who is a child of Uzbekistan, feels the responsibility of working together and meeting all the demands of the modern world. and knowledge, using critical thinking and problem-solving skills and can give a positive answer, he can make a great contribution to the development of our country and we will be left with a free and prosperous country.

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