



WAYS OF DEVELOPING CRITICAL THINKING SKILLS IN STUDENTS

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Annotation:

This article, Ways of Developing Critical Thinking Skills in Students, explores effective educational strategies for nurturing critical thinking in learners. It emphasizes methods such as inquiry-based learning, metacognitive reflection, Socratic questioning, problem-based learning, and the integration of technology and argumentative writing. The article highlights the importance of a supportive classroom culture where diverse perspectives are respected and critical dialogue is encouraged. Drawing on research from educational theorists and empirical studies, it provides a comprehensive overview of how educators can foster analytical and independent thinking among students. This piece serves as a valuable resource for teachers, education professionals, and policymakers aiming to prepare students for complex real-world challenges through the development of critical thinking skills.

Key Words:

Critical thinking, inquiry-based learning, metacognition, socratic questioning, problem-based learning (PBL), reflective learning, argumentative writing, higher-order thinking, educational strategies, student-centered learning, classroom culture, analytical skills, decision-making, independent thinking, Collaborative learning, digital tools in education, active engagement, lifelong learning

Introduction

In an era marked by rapid technological change, global interconnectedness, and information overload, critical thinking has emerged as an essential skill for students. It encompasses the ability to analyze information, evaluate arguments, solve problems, and make reasoned decisions. The development of critical thinking is not only vital for academic success but also for lifelong learning and informed citizenship. However, cultivating this skill requires deliberate instructional strategies and supportive learning environments. This article explores effective ways of developing critical thinking skills in students, drawing from educational research and classroom practices.

Encouraging Inquiry-Based Learning

One of the most effective methods for developing critical thinking is through inquiry-based learning. This approach shifts the traditional role of the





teacher from a dispenser of knowledge to a facilitator of student exploration. In inquiry-based learning, students pose questions, investigate solutions, and develop conclusions based on evidence.

According to Pedaste et al. (2015), inquiry-based learning fosters higher-order thinking by engaging students in activities such as formulating hypotheses, testing ideas, and drawing reasoned conclusions. Teachers can implement this strategy by designing open-ended projects, using case studies, or facilitating scientific experiments where students are encouraged to reflect on their thinking process.

Teaching Metacognitive Strategies

Metacognition, or thinking about one's thinking, plays a crucial role in developing critical thinking. Teaching students to reflect on how they learn and make decisions can significantly improve their analytical abilities. Flavell (1979) introduced the concept of metacognition, highlighting its impact on learning efficiency. In the classroom, this can be cultivated through practices like learning journals, self-assessment checklists, and peer review sessions.

Promoting Socratic Questioning

Socratic questioning involves probing discussions that challenge assumptions and explore underlying concepts. This method promotes deep thinking and encourages students to justify their reasoning. Paul and Elder (2006) argue that using Socratic questioning helps students develop clarity, precision, and logical consistency. Teachers can employ this strategy in classroom discussions by asking open-ended questions such as "What evidence supports your conclusion?" or "Can you think of an alternative explanation?"

Integrating Problem-Based Learning (PBL)

Problem-Based Learning (PBL) is a student-centered pedagogy in which students learn through solving complex, real-world problems. PBL fosters critical thinking by requiring learners to research, collaborate, and propose evidence-based solutions. A meta-analysis by Strobel and van Barneveld (2009) found that PBL is particularly effective in enhancing critical thinking and long-term knowledge retention.

Using Technology Thoughtfully

Digital tools, when used effectively, can support the development of critical thinking. Online discussion forums, collaborative platforms like Google Docs, and simulation software can provide opportunities for analysis, debate, and problem-solving.





However, technology should not be used passively. As Davies (2011) notes, critical thinking is best supported by tasks that require active engagement—such as creating blogs, producing videos, or analyzing datasets—rather than passive consumption of content.

Encouraging Reading and Argumentative Writing

Critical thinking thrives on exposure to multiple perspectives and structured argumentation. Assignments that involve analyzing texts, evaluating sources, and writing argumentative essays promote analytical thinking and logical reasoning.

Graff and Birkenstein (2014) advocate for using structured templates in writing to help students enter academic conversations.

Creating a Supportive Classroom Culture

A classroom environment that values curiosity, risk-taking, and open dialogue is essential for critical thinking. Students must feel safe to express their ideas, make mistakes, and challenge others respectfully. Brookfield (2012) emphasizes that democratic classrooms, where students have a voice and diverse perspectives are respected, foster critical engagement.

Conclusion

Developing critical thinking skills in students is not an incidental outcome but a deliberate educational goal. Strategies such as inquiry-based learning, metacognitive reflection, Socratic questioning, problem-based learning, and argumentative writing can transform the learning experience. When paired with a supportive and inclusive classroom culture, these approaches help students become independent thinkers capable of navigating the complexities of modern life. Educators, therefore, have both the responsibility and the opportunity to cultivate critical thinkers who can engage thoughtfully with the world

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