

STRATEGIES TO DEVELOP PROBLEM-SOLVING SKILLS IN STUDENTS

by: **Maricar A. Soriano**Teacher III, Pita Elementary School

Developing problem-solving skills is a crucial aspect of modern education. As the world continues to evolve rapidly, students must acquire skills that go beyond rote learning. Problem-solving equips students with the ability to tackle complex challenges in both academic and real-life situations.

In today's rapidly changing world, students need to be equipped with skills that go beyond rote learning and memorization. Problem-solving is a fundamental skill that enables students to tackle complex and unforeseen challenges in both academic and real-life situations. This skill set is increasingly important in a world where technology, global connectivity, and interdisciplinary knowledge are continually evolving. Here are several effective strategies to foster these critical skills:

1. Encourage Critical Thinking

This implies posing open-ended questions that challenge their presumptions and demand them to investigate several answers.

2. Integrate Problem-Based Learning

PBL involves presenting students with complex, real-world problems that lack a straightforward solution. This method encourages students to research, collaborate, and apply their knowledge to find solutions. It also fosters creativity and innovation.

3. Teach Metacognitive Strategies

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Teaching pupils how to organize, track, and assess their approaches to problem-solving would help them to acquire metacognitive skills. Encourage them to ask themselves questions like "What strategies am I using?", "Is this approach working?", and "How can I improve?". This self-reflective approach improves their capacity for control and direction of their learning.

4. Use Technology and Digital Tools

Leverage technology to create interactive and engaging problem-solving experiences. Online simulations, educational games, and digital tools can provide students with a dynamic platform to experiment and find solutions. These tools can make learning more enjoyable and relevant to the digital age.

5. Incorporate Hands-On Activities

Engage students in hands-on activities and experiments that require them to apply problem-solving skills. Activities like science experiments, engineering projects, and art creations allow students to explore concepts actively and see the results of their solutions in real time.

6. Encourage Critical Thinking

Teaching students to ask questions, analyze information, and evaluate possible solutions strengthens their ability to approach problems systematically. Open-ended questions and real-life scenarios help them develop a deeper understanding of problem-solving techniques.

7. Use Step-by-Step Approaches

Breaking problems into smaller, manageable steps makes complex tasks less overwhelming. Techniques like identifying the problem, brainstorming solutions, testing ideas, and evaluating results provide a structured method for finding answers.

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By implementing these strategies, educators can create a learning environment that not only emphasizes academic excellence but also prepares students to navigate and succeed in a complex, dynamic world. These skills are essential for personal development, professional success, and lifelong learning. Problem-solving is a crucial skill that goes beyond the classroom, equipping students with the ability to analyze situations, think critically, and find solutions. Developing strong problem-solving abilities requires intentional strategies that foster logical reasoning, creativity, and perseverance. Here are some effective methods to enhance students' problem-solving skills:

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