

DEVELOPMENT OF PRIMARY CLASS STUDENTS' INTELLECTUAL COMPETENCE AS AN EXAMPLE OF NATURAL SCIENCES

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Abstract: This article provides a lot of scientific information on the method of intellectual development of elementary school students based on an individual approach (as an example of natural sciences).

Keywords: student, class, critical thinking, practical experience, school, methodology, intellectual, visual, auditory, kinesthetic, curriculum.

INTRODUCTION. Developing the intellectual potential of elementary school students in science requires a tailored and holistic approach that encourages inquiry, critical thinking, and hands-on experiences. Below is a suggested methodology that emphasizes an individual approach to promote the intellectual development of elementary school students:

1. Start by understanding the different learning styles of each student. Conduct assessments to determine whether students are visual, auditory, kinesthetic, or a combination of these types of learning.
2. Create personalized learning plans for each student based on their strengths, weaknesses, and learning preferences. These plans should integrate a variety of teaching methods and materials, taking into account individual differences.
3. Includes hands-on experiences, field trips, and hands-on activities to provide students with real-life science-related experiences. Encourage them to observe, ask questions, and draw conclusions from their experiences and experiences.
4. To develop curiosity and critical thinking by encouraging students to independently ask questions and seek answers. Design activities that stimulate their inquisitiveness and encourage them to explore scientific concepts more deeply.
5. Implementation of project-based educational activities that allow students to study specific topics of interest in natural sciences. Encouraging them to do research, collect data, and present their findings in a creative way will help them gain a deeper understanding of the topic.

Integrate interactive technology, educational programs, and multimedia resources to engage students in the learning process. Uses educational applications, simulations, and virtual experiences to complement classroom instruction and reinforce complex scientific concepts. Modify the content, process, and product of learning to meet the diverse learning needs of students. Offer additional materials, provide additional challenges for advanced learners, and provide extra support for those who need more help.

Encourage cooperative learning activities where students work in groups to solve problems, conduct experiments, or complete projects. Encourage co-teaching, discussion, and collaborative learning to increase their understanding of scientific principles through collaborative learning.

Conduct formative assessments regularly to monitor student progress and understanding. Provide constructive feedback that encourages self-reflection and helps them identify areas for improvement and strengthening the learning process. Encourage outdoor learning experiences by integrating nature-based activities and environmental studies into the curriculum. Organizes nature trips, gardening projects and environmental initiatives to create a deeper connection with nature.

Encourage parent involvement by providing parents with information and resources about curriculum and learning goals. It provides open communication so that parents can actively participate in their child's intellectual development and help at home.

Encourage teachers to participate in continuous professional development programs to stay up-to-date with the latest teaching methodologies, technological advances, and scientific discoveries. This allows them to implement innovative and effective strategies of intellectual development in the field of natural sciences.

By implementing these strategies, teachers can instill a love of science, encourage critical thinking, and nurture the intellectual development of elementary school students, allowing each child to reach their full potential. can provide attention and support.

The main goal of implementing an individual approach to the intellectual development of elementary school students in natural sciences is to create a comprehensive and personalized educational experience, taking into account the unique needs, interests and abilities of each student. By focusing on individualized intellectual development in the context of the natural sciences, the following goals can be achieved:

By recognizing and accommodating different learning styles, the approach ensures that each student can effectively understand scientific concepts through visual aids, hands-on experiences, or interactive discussions.

developing critical thinking and problem-solving skills: encouraging an individual approach encourages students' critical thinking and problem-solving skills, allowing them to analyze scientific phenomena, ask questions, and independently explore potential solutions. By tailoring the curriculum to students' personal interests and passions, the approach instills a genuine passion for science, encouraging students to develop a love of learning and inquiry in the field.

Providing a personalized learning experience helps students build confidence in their abilities and develop a sense of self-efficacy, enabling them to approach academic challenges with positive and critical thinking.

An individualized approach promotes self-directed learning, empowers students to take ownership of their own learning journey, and encourages them to explore science beyond the classroom. By adapting the approach to meet the strengths, weaknesses and interests of each student, it supports holistic development, ensuring that intellectual growth is complemented by emotional, social and cognitive development.

An individualized approach to elementary science provides a solid foundation for future research, fosters a deeper understanding of scientific concepts, and prepares students for more advanced research in the field.

➤ An individual approach ensures equity by recognizing and meeting the different learning needs of all students, ensuring that every child has an equal opportunity to learn science, regardless of their background or learning style. provides. By tailoring the learning experience to each student's unique abilities and challenges, the approach fosters a growth mindset, believing that intelligence and abilities can be developed through dedication and hard work. By realizing these goals, an individualized approach to the intellectual development of elementary school students in the

natural sciences lays the foundation for lifelong appreciation of scientific inquiry, critical thinking, and problem-solving skills, as well as the education of well-rounded and confident individuals ready for success.

- The implementation of an individual approach to the intellectual development of elementary school students in natural sciences can give a number of useful scientific results.
- While specific scientific studies may provide more specific insights, general findings from this methodology may include:
 - Enhanced cognitive development: By tailoring the learning process to each student's unique abilities and learning styles, an individualized approach promotes cognitive development, including critical thinking, problem solving, and the ability to apply scientific principles in a variety of contexts.
 - Increasing engagement and motivation: Tailoring learning experiences to meet students' interests and abilities can increase engagement and motivation. When students feel personally invested in their learning, they are more likely to participate actively in class, ask questions, and pursue independent learning opportunities.
 - Improved recall and comprehension: Hands-on learning experiences and personalized instruction can improve students' retention of scientific concepts. By allowing students to learn and discover scientific principles through practical application, they can retain knowledge and develop a deeper understanding of the subject.
 - Strengthened Problem Solving Skills: The methodology encourages students to apply what they have learned to solve real-world problems. Through hands-on experiences and collaborative projects, students can develop critical problem-solving skills that can be applied not only in the natural sciences, but also in other areas of their academic and personal lives.

Cultivating a lifelong love of learning: By fostering a deeper understanding of the natural sciences and promoting an interest-based approach to learning, an individualized methodology can foster a lifelong passion for learning and inquiry. Students who are encouraged to ask questions, seek answers, and think critically develop a genuine interest in scientific research and inquiry.

Increased self-efficacy and confidence: Tailoring learning experiences to students' individual needs and abilities can increase their self-efficacy and confidence in their academic capabilities. As students succeed and overcome challenges, they develop self-confidence, which can positively impact their overall academic performance and future pursuits.

Increasing scientific literacy: emphasizing the practical application and relevance of scientific knowledge in everyday life, the methodology can contribute to increasing scientific literacy among elementary school students. It helps them understand the importance of science in solving global problems and making informed decisions in the modern world.

In conclusion, these scientific results together contribute to the comprehensive development of elementary school students in natural sciences, and create a solid foundation for their scientific and intellectual growth in the future.

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