

TEACHER OF THE 21ST CENTURY

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Abstract: the publication was prepared based on the results of PISA 2022, an analysis of the success of leading countries. What competencies do teachers in these countries have, and do they inspire their students with this? requirements for a teacher of the 21st century.

Keywords: teacher training, professional development, PISA results, essential 21st century skills, education.



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Introduction

PISA results were released in December 2023. PISA is an international program for assessing the educational achievements of students, which analyzes the knowledge and skills of school students at the age of 15. 18 countries and economies performed above the OECD average in maths, reading and science in 2022. Between 2018 and 2022, average math achievement in OECD countries fell by a record 15 points. Reading fell 10 points, double the previous record, while science performance did not change significantly. In such an uncertain time, with many countries and economies experiencing declines in student learning outcomes, Japan, Korea, Lithuania and Chinese Taipei were able to maintain or improve their results. Singapore topped the world mathematics rankings, followed by Macau (China), Chinese Taipei, Hong Kong (China), Japan and Korea. [4]

How did they achieve such success? What is the secret of their education system? Is this result due to the teachers?

Andris Schleicher , head of the Department of Education and Skills of the Organization for Economic Co-operation and Development, curator of the International Student Assessment Program PISA, in his book "World-Class Education. How to build a school system for the 21st century?" devotes an entire chapter to researching what makes high-performing school systems stand out, and how to find and retain the best teachers. But who are the best teachers? A teacher of the 21st century is a professional who has a deep and broad understanding of what he teaches and why; create a learning environment that leads to excellent results; has research skills that are constantly evolving and set an excellent example for students. It is especially important to emphasize that the 21st century teacher has the skills of collaboration, planning and reflection. [9]

Here's what education researchers Thomas L. Goode and Alison Lavin highlight in summarizing some key characteristics: Effective teachers believe that their students are capable of learning and that they themselves are capable of teaching; spend most of their classroom time on learning; organize their classes and maximize student learning time; use a fast paced curriculum based on small steps; use active teaching methods; teach students until students achieve mastery of the subject in question. [7]

John Hattie, in his book *Visible Learning for Teachers*, identified 8 mental attitudes that modern educators should have:

1. If successful, continue to use, and if unsuccessful, use something else. This setting helps to find answers to the following questions: "How can I know that this method works?", "How can I compare this method with another?", "What are the benefits and significance of this factor influencing learning?", "To what extent?" great influence", "What evidence can convince me?"
2. The teacher must adhere to positive attitudes: "All students can achieve fairly complex goals," "Developing communication between students helps improve learning," "Developing the ability to think critically contributes to the development of learning."
3. Teachers are specialists in adapting learning, know a variety of strategies and methods of teaching and learning, and use coaching in their work .
4. Feedback is one of the factors that has the greatest influence on learning, including the learning of teachers.
5. Teachers and leaders use dialogue
6. They feel satisfaction from overcoming difficulties and are not guided by the principle of "We do what we can"
7. Have a sense of empathy
8. Help parents learn the language of pedagogy. [2]

Let's turn to world experience:

Finland . The profession of a school teacher is very popular; only the best and most motivated young people can become one. To enter a university to become a teacher, it is not enough to graduate from high school and pass an exam; you need to be talented, creative, motivated, have a positive attitude, excellent communication skills and dedication. [3] Teacher training is based on a research approach. This means that the integration of educational theory, research methods and practice plays an important role in Finnish teacher education programmes. Which will further affect the teaching style and the development of relevant skills in students. [3]

The PISA 2022 results for Finland looked like this: - Students in Finland scored above the OECD average in math, reading and science .

- In Finland, more students than the OECD average performed better (level 5 or 6) in at least one subject. At the same time, a higher proportion of students than the OECD average achieved minimum proficiency (level 2 or above) in all three subjects. [8]

Singapore. Singapore has one of the best PISA results. Teachers have always been celebrated as a factor in Singapore's success. Considerable attention is paid to maintaining the qualifications of teachers; they must constantly update their competencies. For this they are given 100 hours. At the same time, the government carefully selects candidates, offers them a monthly stipend, and future teachers are required to teach for at least three years after graduation. In 2010, the Teachers' Academy was opened with the aim of continuously sharing best practices among teachers. A teacher who believes in his own effectiveness attends the lessons of colleagues, participates in joint professional development and teaching.[1] By collaborating with each other, teachers instill this skill in children. David Hong of the National Institute of Education emphasized that changing teachers' attitudes is a fundamental step for change in education.

Japan. Japan is also one of the leaders in international PISA results. Here, the professionalism of a teacher is determined through a sense of duty and responsibility not only to society, but also to himself. Teachers in Japan strive to create optimal conditions for each student. Meanwhile, it is very difficult to obtain the title of teacher in Japan. A sensei-teacher must not only pass a difficult exam, but also be proficient with both a pen and a brush, have a musical education, and a sports rank. In addition to professional skills, the sensei develops in students self-service skills, the ability to engage in self-education, the ability to help each other, and to reflect.

Canada. Canadian students scored above the OECD average in math, reading and science, and performed better (level 5 or 6) than the OECD average. [6] It is worth noting that in Canadian schools there are a large number of children from immigrant families, and the results are the same as for local children. All this is due to the fact that the educational system includes elements of different cultures and students learn to look at the world from different perspectives. Teachers develop a positive view of diversity and encourage every child to succeed. The teacher himself receives the same support from the state. Especially at the beginning of his journey:

1. programs are being developed that provide support to the teacher and effectively influence his development.
2. leadership and funding occurs at the provincial level. This makes it possible to diversify the programs.
3. methodological support is being developed
4. The teacher's competence increases due to the development of both his personal and professional qualities.

Participation in this program is mandatory for all "new" teachers. They go through this program under the close supervision of a mentor. Upon completion of the program, they receive a certificate. [5]

Having analyzed several examples of the experience of foreign countries that occupy leading positions in international research, and the opinions of experts, the following unified portrait of a teacher of the 21st century is formed

Education	Personal qualities	Professional skills
<ul style="list-style-type: none"> • Higher (Master's) • They undergo a thorough selection process when entering both an educational institution to study and to work there. 	<ul style="list-style-type: none"> • has 21st century skills • consciously chose a profession • is constantly in development • is a leader • knows how to plan his activities • has a broad outlook • reflects • leads a healthy lifestyle • stress-resistant • has a sense of empathy • actively interacts with students' parents and helps them master the language of pedagogy 	<ul style="list-style-type: none"> • understands what he teaches and why • uses active teaching methods that are aimed not only at gaining knowledge, but also at developing skills • creates a learning environment that helps each student develop in their own direction • organizes meetings with colleagues • actively participates in research activities • develops 21st century skills in children

The teacher of the 21st century plays a key role in the formation of education and the development of students. Only such a teacher is able to effectively educate and develop a new generation ready for the challenges and opportunities of the future

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