



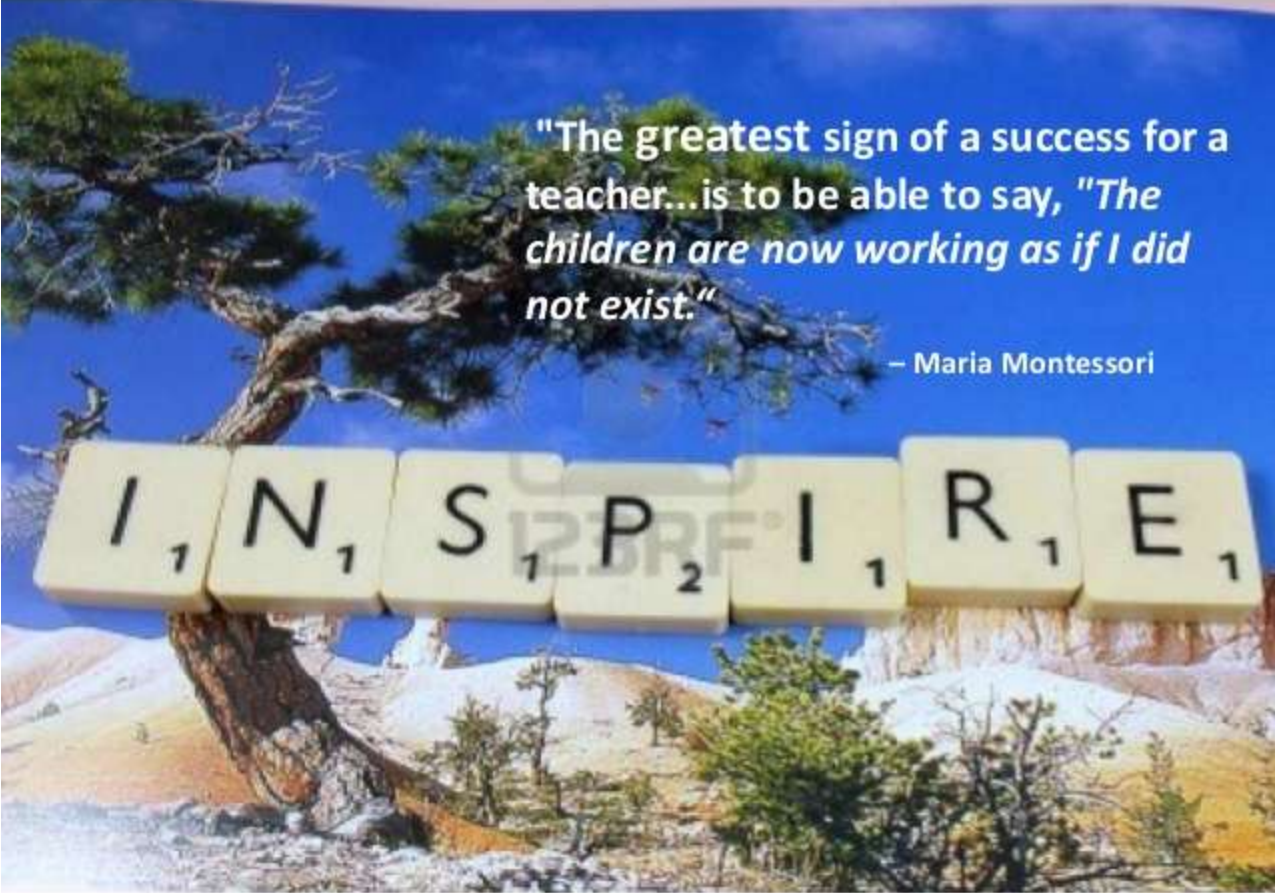
Erasmus+ Project
Strategic Partnerships for School Education
„Work for an Inclusive School Heritage“

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Departement of Teacher Training

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"The greatest sign of a success for a teacher...is to be able to say, *"The children are now working as if I did not exist."*

– Maria Montessori

I₁ N₁ S₁ P₂ I₁ R₁ E₁

What is 21st century teaching and learning?

- The term "**21st-century** skills" is generally used to refer to certain:
- core competencies such as collaboration
- digital literacy
- critical thinking
- problem-solving that advocates believe schools need to teach to help students thrive in today's world.

Definitions of 21st Century Skills

- **CRITICAL THINKING SKILLS** refers to students being able to analyze complex problems, investigate questions for which there are no clear-cut answers, evaluate different points of view or sources of information, and draw appropriate conclusions based on evidence and reasoning.
- **COLLABORATION SKILLS** refers to students being able to work together to solve problems or answer questions, to work effectively and respectfully in teams to accomplish a common goal and to assume shared responsibility for completing a task.
- **COMMUNICATION SKILLS** refers to students being able to organize their thoughts, data, and findings; and share these effectively through a variety of media, as well as orally and in writing.
- **CREATIVITY AND INNOVATION SKILLS** refers to students being able to generate and refine solutions to complex problems or tasks based on synthesis, analysis, and then combining or presenting what they have learned in new and original ways.
- **SELF-DIRECTION SKILLS** refers to students being able to take responsibility for their learning by identifying topics to pursue and processes for their own learning, and being able to review their own work and respond to feedback.
- **GLOBAL CONNECTIONS** refers to students being able to understand global, geopolitical issues including awareness of geography, culture, language, history, and literature from other countries.
- **LOCAL CONNECTIONS** refers to students being able to apply what they have learned to local contexts and community issues.
- **USING TECHNOLOGY AS A TOOL FOR LEARNING** refers to students being able to manage their learning and produce products using appropriate information and communication technologies.

Modern classroom

- In a **modern classroom**, students are actively involved in constructing content and new ideas. They use active learning approaches, such as project-based learning and design-based learning, where students are engaged in real, relevant, and purposeful activities.

What must 21st century teachers do to develop critical thinking in students?



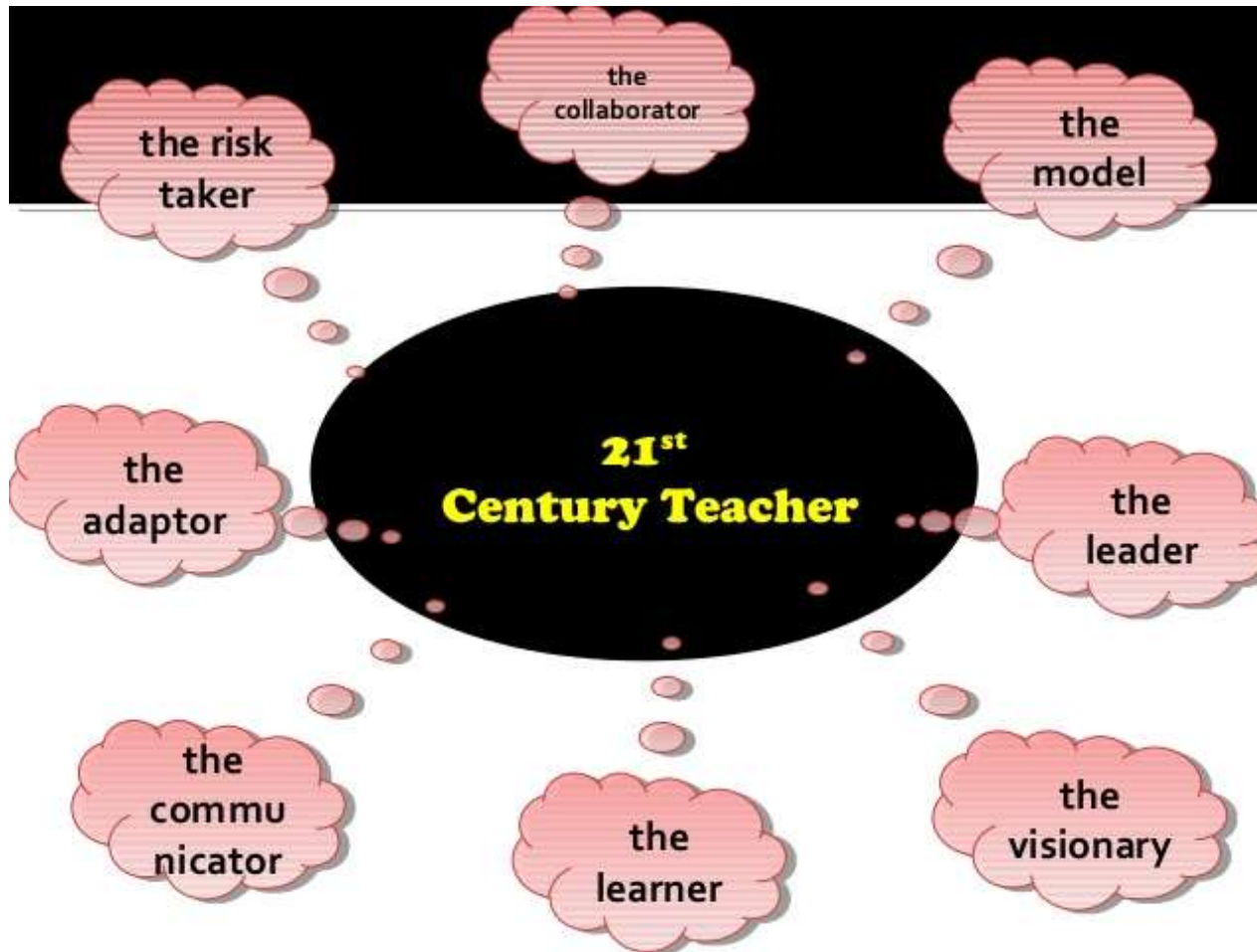
- Commitment
- Competence
- Creativity
- Compassion
- Character

<http://www.teachthought.com/learning/25-critical-thinking-strategies-for-the-modern-learner/>

Attitude gives us altitude!

- The competency component is part of the ATITUDE and I think that from this we have to start with our students about the operationalization with the information, the data and the knowledge. Developing skills, abilities and abilities will lead us to understanding and performance.
- This combinatorial form us, as modern teachers, facilitators of the teaching-learning-evaluation process.

21 Century Teacher



A NEW VISION OF TEACHING

- Teachers demonstrate LEADERSHIP
- Teachers establish environment for a diverse population of students
- Teachers know the content they teach
- Teachers facilitate learner for their students
- Teachers reflect on their practice

21 Century Teacher and Learner

- Ideal learning environment: learning by doing (DEWEY- concept)
- A. Teachers and students are all learners
- B. The focus is more on questions, less on answers
- C. Understanding is more important than Knowing
- D. Innovation and exploration are part of learning

- Teachers Lead in the Classroom
- *Teachers demonstrate leadership in the school.*
- *Teachers lead the teaching profession.*
- *Teachers advocate for schools and students*
- *Teachers demonstrate high ethical standards.*

- *Teachers embrace diversity in the school community and in the world.*
- *Teachers treat students as individuals.*
- *Teachers adapt their teaching for the benefit of students with special needs.*
- *Teachers work collaboratively with the families and significant adults in the lives of their students.*
- *Encourage an environment that is inviting, respectful, supportive, inclusive, and flexible.*

21 Century Teacher

- Teachers know the content appropriate to their teaching speciality
- Teachers recognize the interconnectendess of content areas/disciplines
- Teachers make instruction relevant to student

- *Teachers know the ways in which learning takes place, and they know the appropriate levels of intellectual, physical, social, and emotional development of their students.*
- *Teachers plan instruction appropriate for their students.*
- *Teachers use a variety of instructional methods.*
- *Teachers integrate and utilize technology in their instruction.*
- *Teachers help students develop critical thinking and problem-solving skills.*
- *Teachers help students work in teams and develop leadership qualities.*
- *Teachers communicate effectively.*
- *Teachers use a variety of methods to assess what each student has learned.*

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- *Teachers analyze student learning.*
- *Teachers link professional growth to their professional goals.*
- *Teachers function effectively in a complex, dynamic environment.*

What does 21st century Professional Development look like?

- 21st century skills professional development prepares teachers and principals to integrate 21st century skills into their classrooms and schools. Professional development for the 21st century should be a part of a comprehensive emphasis on 21st century skills that includes updates to standards and assessments.

Successful 21st century professional development programs:

- Ensure educators understand the importance of 21st century skills and how to integrate them into daily instruction
- Enable collaboration among all participants
- Allow teachers and principals to construct their own learning communities
- Tap the expertise within a school or school district through coaching, mentoring and team teaching
- Support educators in their role of facilitators of learning
- Use 21st century tools

21st Century Professional Development

- Highlights ways teachers can seize opportunities for integrating 21st century skills, tools and teaching strategies into their classroom practice — and help them identify what activities they can replace/de-emphasize
- Balances direct instruction with project-oriented teaching methods
- Illustrates how a deeper understanding of subject matter can actually enhance problem-solving, critical thinking, and other 21st century skills
- Enables 21st century professional learning communities for teachers that model the kinds of classroom learning that best promotes 21st century skills for students
- Cultivates teachers' ability to identify students' particular learning styles, intelligences, strengths and weaknesses
- Helps teachers develop their abilities to use various strategies (such as formative assessments) to reach diverse students and create environments that support differentiated teaching and learning
- Supports the continuous evaluation of students' 21st century skills development.

Characteristics of a 21st Century Teacher

21st Century Educators are able to adapt

1. the curriculum and the requirements to teach to the curriculum in imaginative ways;
2. software and hardware designed for a business model into tools utilizable by a variety of age groups and abilities to a dynamic teaching experience.
3. teaching style to be inclusive of different modes of learning.

Characteristics of a 21st Century Teacher

The Adaptor

The 21st Century teacher, as a communicator, must be fluent in tools and technologies that enable communication and collaboration anywhere, anytime. They do not only know how to do communication, they also know how to facilitate, stimulate, control, moderate, and manage communication.

Characteristics of a 21st Century Teacher

The Adaptor

The Communicator

The 21st Century teacher, as a learner, must

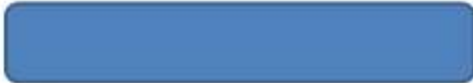
- be lifelong learners;
- continue to absorb experiences and knowledge;
- endeavor to stay current;
- change and learn as the horizons and landscape changes.

Characteristics of a 21st Century Teacher

The Adaptor

The Communicator

The Learner



The 21st Century teacher, as a visionary, must have rich imagination to:

- see the potential in, grasp, and manipulate the emerging tools and web technologies;
- look at others' ideas and envisage how they would use these in their class;
- looks across the disciplines and through the curricula and make links that reinforce and value learning in other areas; and
- make other fields as leverage to reinforce their own teaching and the learning of their students

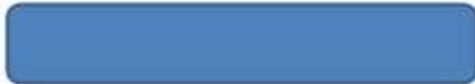
Characteristics of a 21st Century Teacher

The Adaptor

The Communicator

The Learner

The Visionary



The 21st Century teacher, as a leader,

- leads by example by championing processes and modeling skills—walks the talk;
- is an advocator, early adopter—a maverick;
- set clear goals and objectives crucial to the success of a project

Characteristics of a 21st Century Teacher

The Adaptor

The Communicator

The Learner

The Visionary

The Leader

The 21st Century teacher, as a model, should model

- the behaviors that they expect from their students—tolerance, acceptance, a wider view than just their curricula areas, global awareness, and reflection
- reflective practice by monitoring and evaluating their teaching via blogs, twitter and other medium where educators can look both inwards and outwards

Characteristics of a 21st Century Teacher

The Adaptor

The Communicator

The Learner

The Visionary

The Leader

The Model

The 21st Century teacher, as a collaborator, must be able to

- leverage collaborative tools like LinkedIn, Ning, Blogger, Wikispaces, Bebo, MSN, MySpace, Slideshare, Pinterest, Instagram and Facebook to enhance and captivate our learners
- Share, contribute, adapt and invent using these collaborative tools

Characteristics of a 21st Century Teacher

The Adaptor

The Communicator

The Learner

The Visionary

The Leader

The Model

The Collaborator

The 21st Century teacher, as a risk taker, must

- have a vision of what s/he wants and what the technology can achieve to be able to identify goals and facilitate learning
- take risks and sometimes surrender to the students' knowledge and use the strengths of these digital natives to
 - ✓ understand and navigate products
 - ✓ have students teach each other

Activity in international groups

- Find and formulate some 21st Century Skills starting from an subject area of your choosing
- Formulate skills on different levels:
 1. Life skills....
 2. Critical thinking/ innovation skills
 3. Cooperation / communication skills