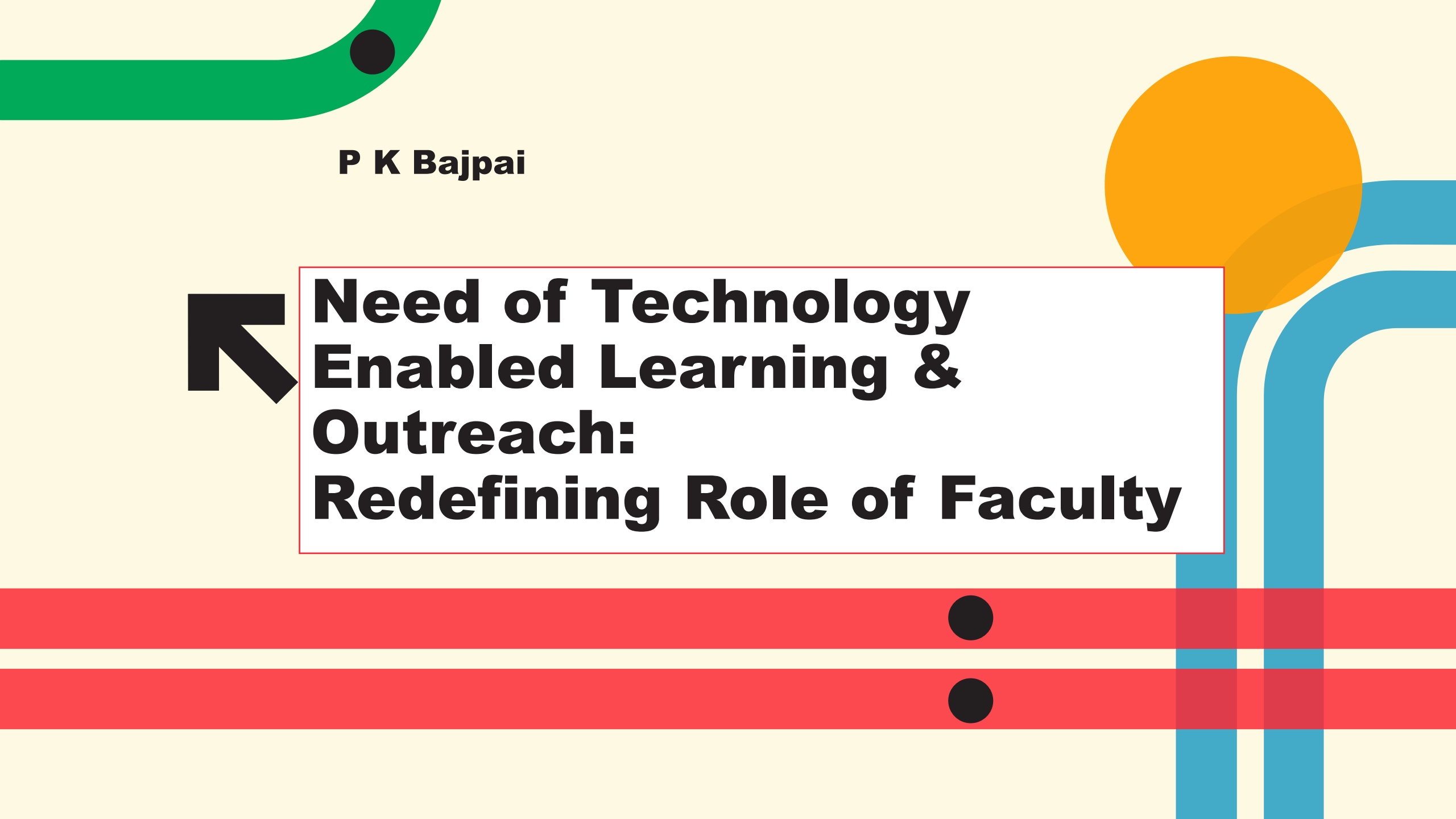
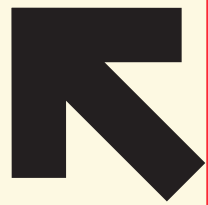




P K Bajpai



**Need of Technology
Enabled Learning &
Outreach:
Redefining Role of Faculty**



Plan of the talk

- **What is NEP-2020?**
- **Education and SDG's**
- **Changing role of Faculty: Lifelong learning**
- **21st Century Skills**
- **How to incorporate them into curriculum?**

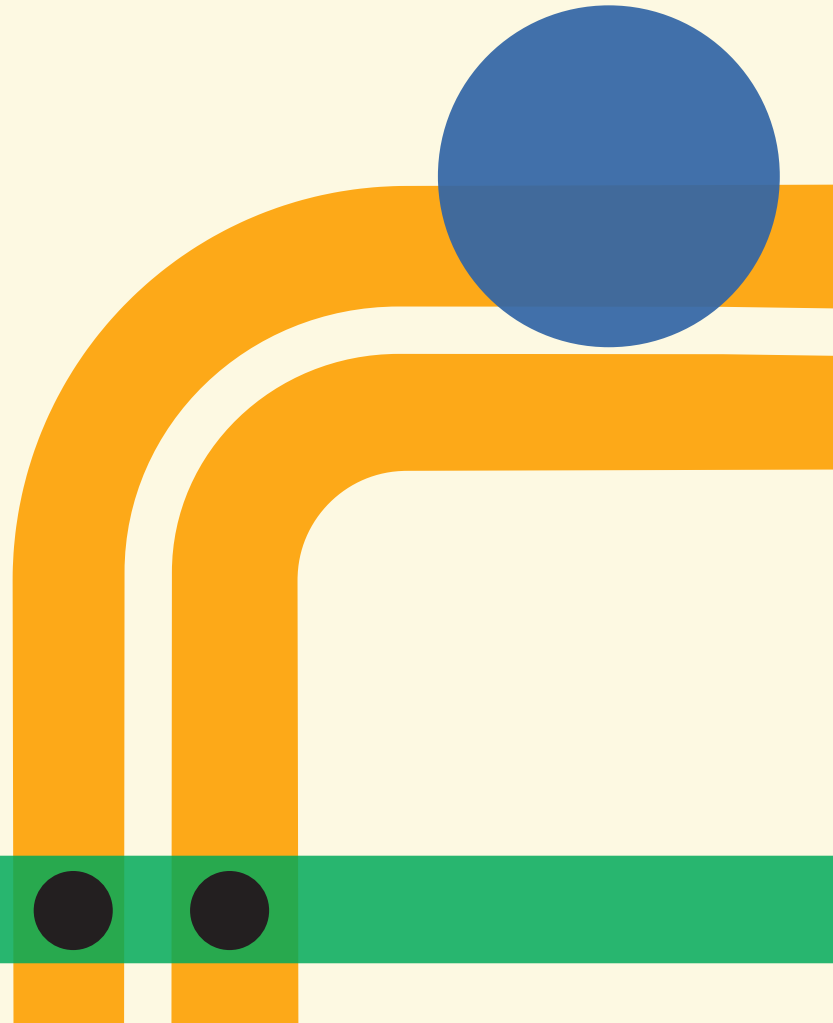


NEP-2020 in Brief

National Education Policy is a vision document prescribing roadmap for achieving goals intended to transform Indian Education system as second to none.

Education is fundamental for achieving full human potential, developing an equitable and just society, and promoting national development

Universal access to quality education is the key to India's continued ascent, and leadership on the global stage in terms of economic growth, social justice and equality, scientific advancement, national integration, and cultural preservation.





4

Redefining Role of Faculty

Emphasis on students not only learn but learn how to learn

**How to develop cognitive skills
critical thinking problem solving**

**How to be creative and
multidisciplinary**

**How to innovate, adapt, and
absorb new material in novel and
changing fields**

- Pedagogy must evolve to make education more experiential, holistic, integrated, inquiry-driven, discovery-oriented, learner-centred, discussion-based, flexible, and, of course, enjoyable





Role of Teachers

Teachers are given autonomy in selecting appropriate pedagogy and encourages them to ensure socio-emotional learning of their students, which is a critical aspect of holistic development.

Need to change mindset- To be ready for holistic learning & Lifelong learning

Enhanced capacities and capabilities

Technology enabled learning- Flipped learning/ Blended learning

Inculcating 21st century skills

Adopting for multidisciplinary environment



Technology Enabled Learning

Teaching and technology

The National Educational Technology Forum, or NETF, has been created to provide a platform for the exchange of ideas on the use of technology to enhance learning.

Teachers should undergo rigorous training to use online teaching platforms and tools and become high-quality online content creators.

There is going to be emphasis on the teacher's role in facilitating active student engagement.

The use of technology platforms such as SWAYAM, NPTEL or DIKSHA for online training of teachers has been encouraged

What should be done:

- The role of Research in current perspective is changing
- National Research Foundation integrates research capacity and focuses on solving Problems through Research
- Clustering and Critical Research Team Formation is the key
- Establishing Innovation, Incubation and Entrepreneurship Cells is essential
- Integration: Vibrant R & D Cell
- Considering Research as a Way of learning
- **Faculty Empowerment and Capacity Building**
- **Changing Mindset**

Achieving Atmanirbhartta through the Amrit Mantra of Digital Education and Technology Enabled Learning

Skills for Education Sector
21st Century



9

Impact

- The education industry went from chalk-and-talk learning to online-powered lessons in a blink of an eye.
- Education today has become more holistic and engaging in nature.
- In the past, a university degree would be sufficient for a student to secure a job whereas, in present times recruiters seek employees who are proficient in soft skills.
- One of the most crucial traits that parents seek to groom in their children in modern times is communication and confidence.



10

NEP-2020 Emphasizes on

NEP 2020 emphasizes employability and recognizes the importance of education in equipping students with the necessary skill sets.

Through this program, the government hopes to fulfil the goals of the 2030 Agenda for Sustainable Development, which aims to guarantee universal access to inclusive and equitable education and to encourage possibilities for lifelong learning.



11

Flexibility and Choice: Faculty Role

The policy imparts flexibility and choice to learners in their education journey.

It focuses on a student-centric approach, enabling students to choose subjects based on their individual interests, strengths, and career aspirations.



12

What are soft skills?

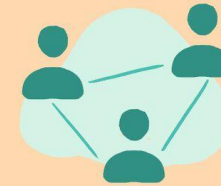
- The knowledge, life skills, habits, traits, and career skills that are crucial for the success of a student in the current world are referred to as 21st-century skills.
- 21st-century skills are included in the strategic plans of educational institutions for preparing students better for their careers and life.
- The most relevant skills include critical thinking, collaboration, and problem-solving skills.

What Exactly Are Soft Skills?

Soft skills are personal attributes needed for success on the job.



Time Management



Networking



Teamwork



Creative Thinking



Conflict Resolution



Soft skills drive success in high-level courses and workplaces.

Learners are being prepared for jobs that are coming up in future. Such career readiness needs to equip them with skills that keep them prepared for the unknown.

The internet era has made vast information accessible to students. They need to have the skills to process and analyze this information by overcoming the challenges occurring while navigating social situations and other circumstances.

Theoretical knowledge from textbooks is no more sufficient. Students need to understand their practical application to efficiently solve complex problems.

IMPORTANCE OF SOFT SKILLS

- Effective Communication
- Effective Meetings
- Effective Leadership
- Conflict Resolution
- Problem Solving Strategies
- Stress Management
- Time Management & Organizational Skills
- Presentation Skills
- High Performance Team building and Managing
- Transition & Change



14

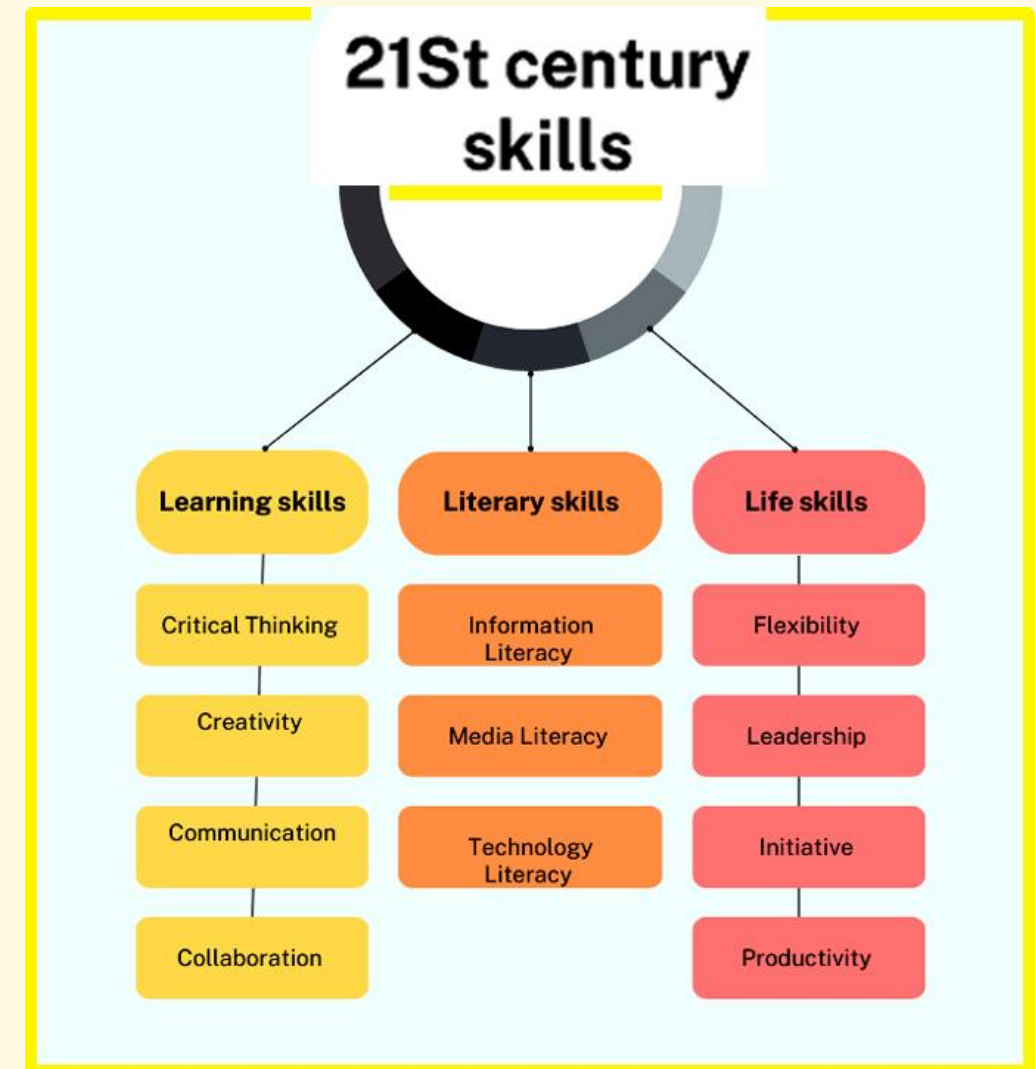
Category of 21st century Skills

Learning Skills: These include critical thinking, creativity, communication, and collaboration skills

Life Skills: These include learning to be flexible, social, productive, and a good leader

Literacy Skills: These involve learning about technology and media to be well-equipped with information technology

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15

Building the 21st-Century Skills

- Creating self capacity
- Creating an inquiry-based environment in the classroom
- Encouraging collaboration





16

Executing Learning Pyramid

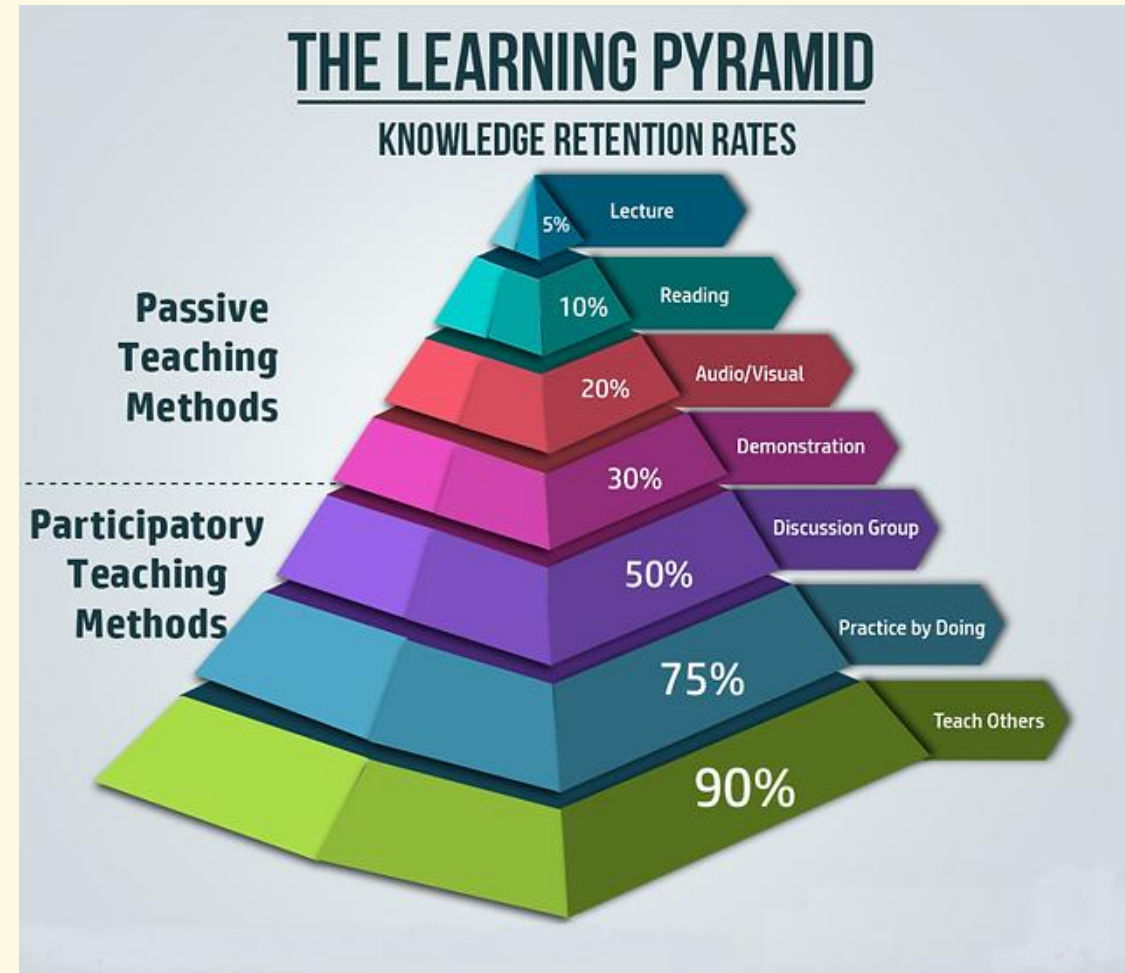
Development of critical thinking skills

Learning doesn't involve just memorizing and remembering things but involves the development of critical thinking skills.

With such skills, they can resolve issues, come to conclusions and generalize things, form new patterns by combining the available information, and form judgments based on certain evidence and criteria.

Teachers should introduce activities in classrooms which develop critical thinking and language skills.

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17

Encourage creativity among students

When students are creative, they can express everything they have learned, in a new way. So, when efforts are made to synthesize and personalize knowledge, it creates an experience that stays with the students even when their schooling is over.

Role of Teacher in fostering student's creativity:

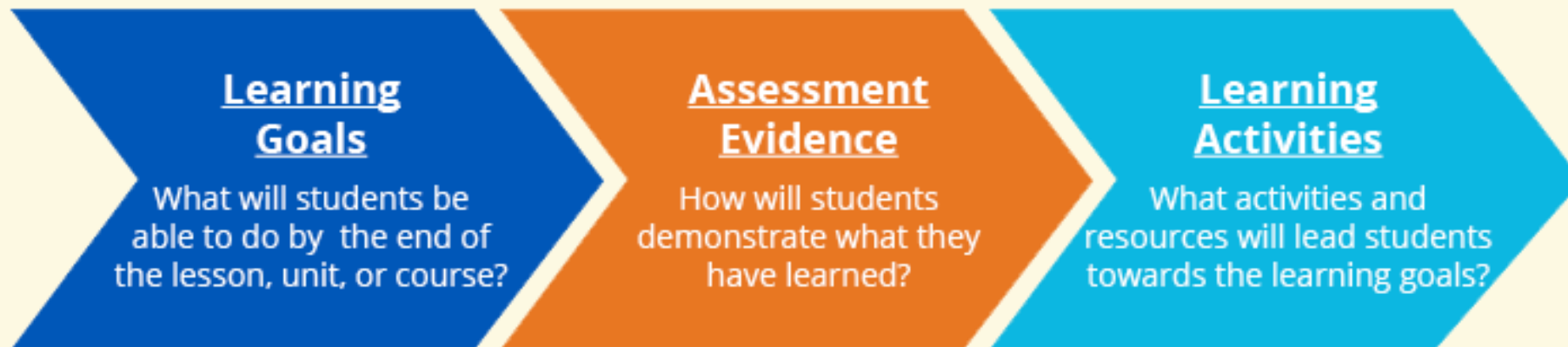
- ❖ Freedom to respond
- ❖ Opportunity for ego involvement
- ❖ Encouraging originality and flexibility
- ❖ Removal of hesitation and fear
- ❖ Providing appropriate opportunities and atmosphere for creative expression.
- ❖ Developing health habits among children
- ❖ Using the creative resources of the community
- ❖ Avoidance of blocks to creative thinking
- ❖ Proper organization of the curriculum
- ❖ Reform in the evaluation system
- ❖ Use special techniques for fostering creativity.
- ❖ Teaching by example



18

Assessing skills of students

When something is measured, it gives the impression that it is important. So, it is important to regularly collect data about the progress of students in acquiring 21st-century skills. This can be qualitative, quantitative, or anecdotal data. Teachers can encourage students to add comments to report cards about their skills.





19

Mentoring weak students Paying special attention to students who are off the track

The data collected about the 21st-century skills of students should be actionable for the teachers.

Mentors should issue early warnings by setting indicators against various parameters such as the social-emotional learning of students or 21st-century skills, their behavior, attendance, and academics.

Data-driven decisions are taken by the teachers with such details, to ensure that every student is on track.

In case, someone goes off track, teachers pay special focus to keep them aligned with the target goals.





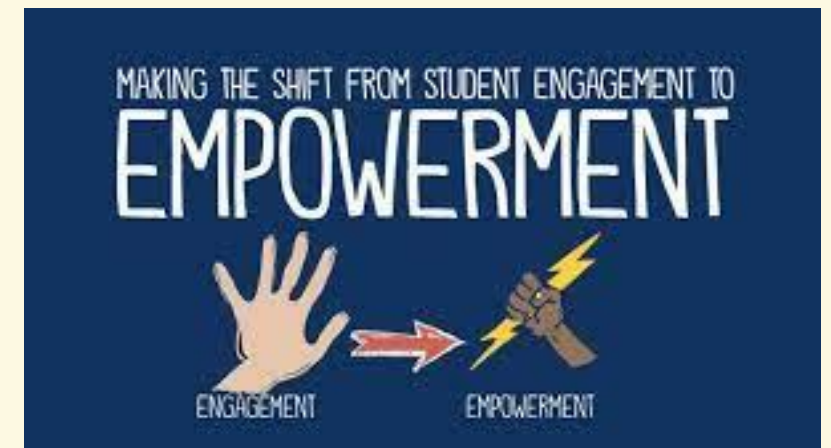
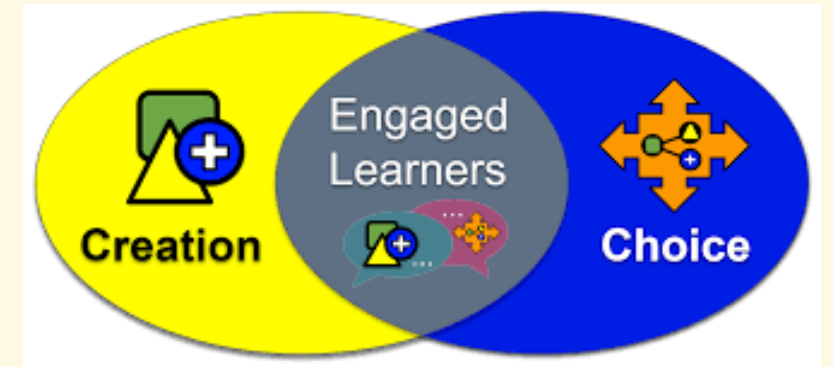
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Students Empowerment Allowing the students to lead learning

No matter what strategies are implemented in educational institutes, teachers should understand that the **best learning environment gives a sense of empowerment to the students.**

Teachers act as moderators who inspire the students and guide them to discover themselves while learning new skills.

Let the students be self-learners so that they love learning throughout their life, not just under compulsion for completing the syllabus.



21

ಅ.೩೩೩ ಶುಕ್ರವಾರ ತುಗಾಡಾ ಪೆನವಾಢ ನುಣ್ಣುರಿಢನೈವಾಢಾಲು
ಢನೈವಾಢಗುಣಿ ಧನೈವಾಢ ಅ.೩೩೩ ಶುಕ್ರವಾರ ತುಗಾಡಾ ಪೆನವಾಢ
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