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21ST CENTURY SKILLS

INTRODUCTION

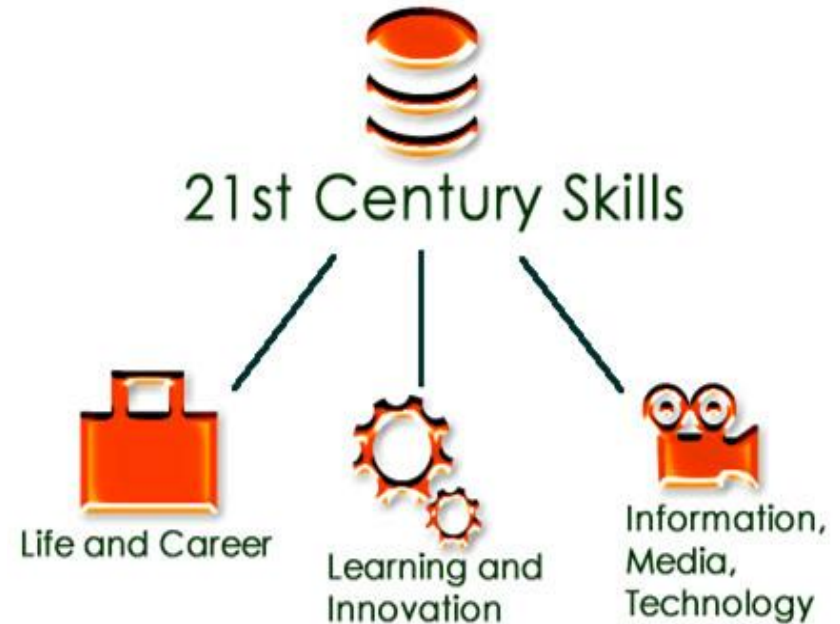
DEFINITION: 21ST CENTURY

THE AREA BETWEEN 2000 - 2100

CURRENTLY, 15 YEARS HAVE PASSED

WHAT ARE 21ST CENTURY SKILLS?

- The 21st century skills are a set of abilities that students need to develop in order to succeed in the information age.
- The Partnership for 21st Century Skills lists three types:



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



PURPOSE

TO PREPARE FOR THE BEST QUALITY OF WORKFORCE

DEMAND IN THE WORKPLACE

The **American Management Corporation** reports employers need workers who can think critically, solve problems, innovate, collaborate, and communicate.

Carl Gilleard, chief executive of AGR, said many employers were now looking for candidates with "softer skills", such as "team working, cultural awareness, leadership and communication skills", as well as academic achievement.



CHARACTERISTICS

LIFE AND CAREER SKILLS

- Flexibility
- Initiative
- Social Skills
- Productivity
- Leadership

LEARNING AND INNOVATION SKILLS

- Critical Thinking
- Creative Thinking
- Collaborating
- Communicating

INFORMATION, MEDIA , TECHNOLOGY SKILLS

- Information Literacy
- Media Literacy
- Technology Literacy

COMPARISON

THE ASPECTS:

1. Centricity
2. Curriculum
3. Learning Environment
4. Assessment

CENTRICITY

20TH CENTURY

- TEACHER-CENTRED
[PASSIVE LEARNING]

21ST CENTURY

- STUDENT-CENTRED
[ACTIVE LEARNING]

CURRICULUM

20TH CENTURY

- FRAGMENTED

21ST CENTURY

- INTEGRATED & INTERDISCIPLINARY

CURRICULUM

20TH CENTURY

- LECTURE, STAND & DELIVER
 - TEXTBOOK DRIVEN
 - ISOLATION
- FACTS & MEMORIZATION

21ST CENTURY

- PROJECT & PROBLEM BASED
 - RESEARCH DRIVEN
 - COLLABORATION
- HIGHER-ORDER-THINKING-SKILLS (HOTS)

LEARNING ENVIRONMENT

20TH CENTURY

- CLASSROOM
- LIBRARY
- COMPUTER LAB

21ST CENTURY

- MOBILE & BLENDED LEARNING
- FLIPPED CLASSROOM
- E-LEARNING (MOOC)

ASSESSMENT

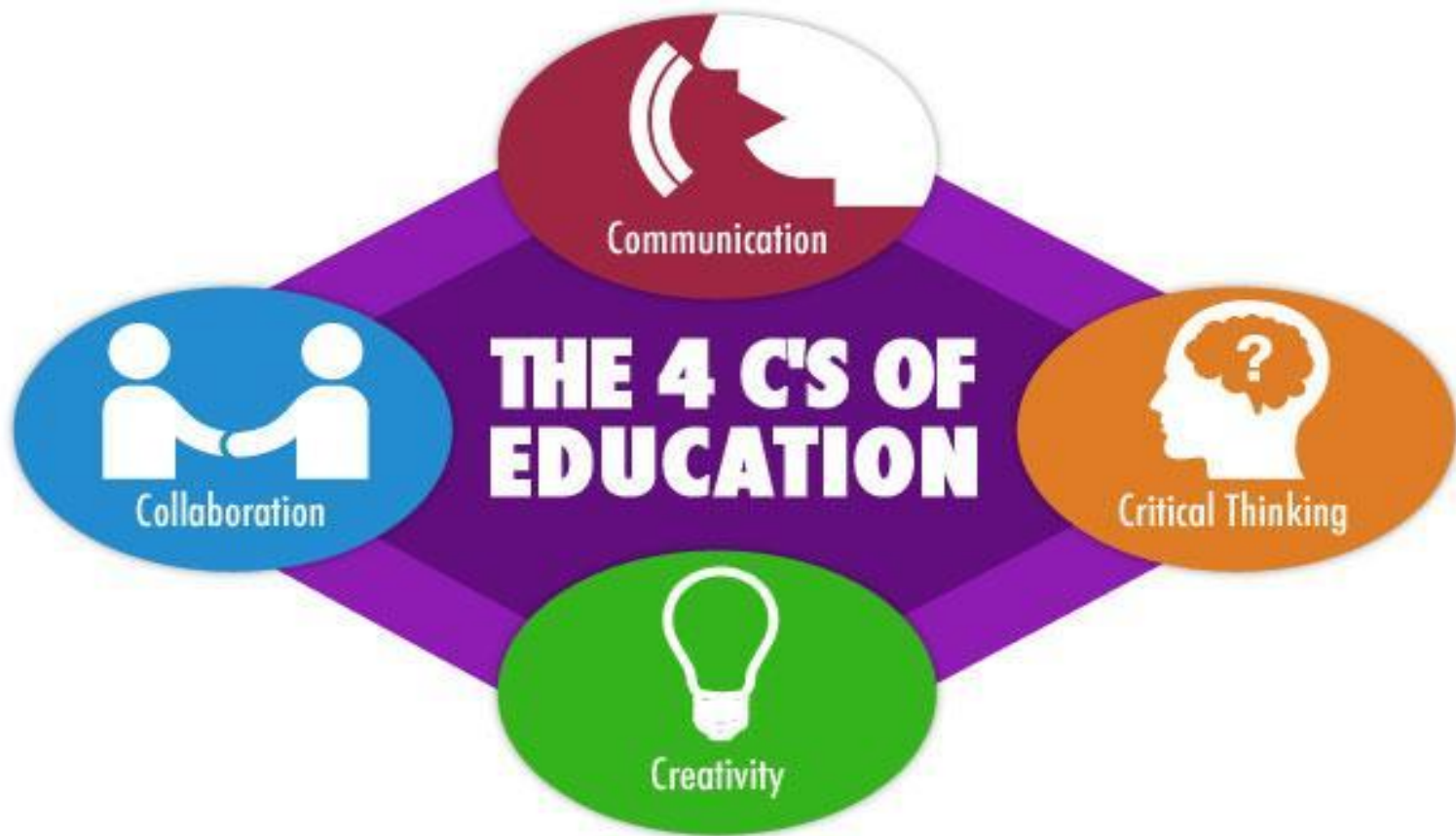
20TH CENTURY

- SUMMATIVE ASSESSMENT

21ST CENTURY

- ONGOING, FORMATIVE, SELF-REFLECTION,
PEER & OTHER ASSESSMENT

HOW TO DEVELOP 21ST CENTURY SKILLS



1. CREATIVITY AND INNOVATION

The Partnership for 21st Century Skills define creative as the innovation skills that use a wide range of idea creation techniques (such as brainstorming).

HOW?

- **Collect variety of newspapers/magazines articles**
- **Grouping the students (they decide the theme and style for the issues chosen)**
- **Use words and phrases cut from the articles to create a poem on the topic**

2. CRITICAL THINKING AND PROBLEM SOLVING

"Critical thinking is the intellectually disciplined process of actively and skillfully conceptualizing, applying, analyzing, synthesizing, and/or evaluating information gathered from, or generated by, observation, experience, reflection, reasoning, or communication, as a guide to belief and action" (Scriven, 1996).

Problem solving is the process of finding solutions of complex issues

HOW?

- **Teacher presenting a case (or story) to the class without a conclusion**
- **Using prepared questions, the teacher then leads students through a discussion, allowing students to construct a conclusion for the case (MCDADE, 1995).**

3. COMMUNICATION SKILLS

- **Communication is simply the act of transferring information from one place to another, whether this be vocally (using voice), written (using printed or digital media such as books, magazines, websites or emails), visually (using logos, maps, charts or graphs) or non-verbally (using body language, gestures and the tone and pitch of voice).**
- **Communication has traditionally been seen as verbal or nonverbal (Iksan et al. 2012).**

HOW?

- **Role-Playing (Deveugele et al. 2005)**
- **Watching videos (Deveugele et al. 2005)**

4. COLLABORATION SKILLS

- **The Partnership for 21st Century Skills says that mastering collaboration skills requires the ability to work effectively with diverse teams. It also requires the ability to "be helpful and make necessary compromises to accomplish a common goal."**
- **"If we make two students sit together, they will be quite frank with each other in a peer assessment, where teacher can't always be there, they'll discuss their works and assess each other by marking, advising and correcting."- Karen Vear, an educator at Lord William's School, Oxfordshire.**

HOW?

Encourage teamwork by grouping students and provide each group with different task.

E.g:

- **Distribute different Math questions to each group of students**
- **Ask each group to collaborate among their groupmates**
- **Presents their solutions in front of the class**

CONCLUSION

ALL IN ALL

21st CENTURY SKILLS are designed not to 'fill up' students with particular kinds of existing knowledge, but to increase students' ability to learn and independently work with others in the global community.

The 21st C Learner is . . .



THE END

- THANK YOU -

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