





Instant Access

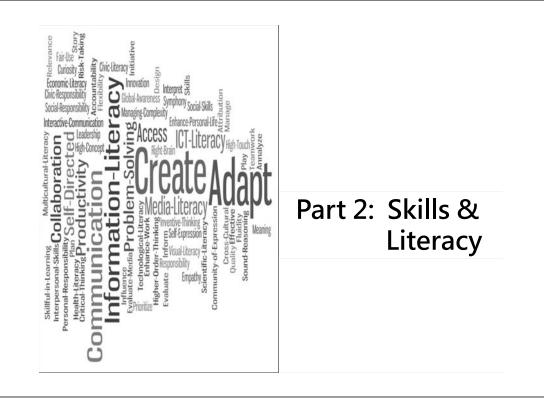
PROSUMERS?

- · Prosumers pass it on.
- The urge to pass on information and opinions to others is the absolute defining core of Prosumerism. No wonder Prosumers become hubs of information and opinions.
- People consult Prosumers. They are much more likely than average consumers to be consulted for tips and recommendations.
- Prosumers don't forgive and forget. Nobody likes a poor product or service experience, but Prosumers dislike them more than most.
- Prosumers consult widely, then make up their own mind. They typically gather information widely for the material they need to decide on their own; they experiment even if they



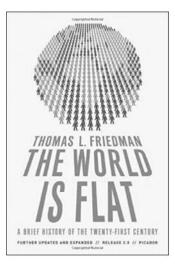
Life outside the Classroom







21st century is a **GLOBAL ECONOMY**



- Flattening of the World
- Globalization
- Competition
- Change of work pattern & career

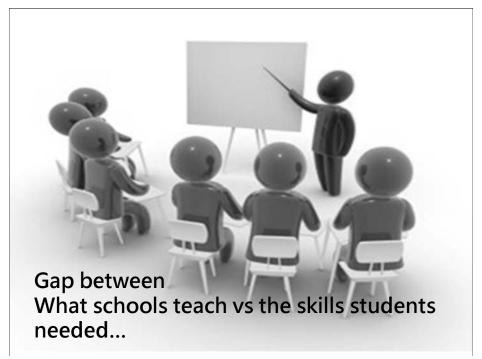
21st century Skills & Literacy

- Emphasis Core Subjects
- Emphasis Skills
- Use 21st century tools to develop learning skills: IT...
- Teaching & learning in a 21st century: authentic learning experience, relevance to daily life...
- Assessment & measurements for 21st century: SBA, formative assessment...



21st Century Skills & Literacy







21st century is a **<u>Creative ECONOMY</u>**



- Moving from informational to the conceptual age
- Right brain thinking mode (left brain is not enough)
- *3-A* trends:
 - *a* bundance
 - *a* sia
 - *Ci*: automatism



Skills versus Competencies



"A COMPLETENCE is more than just knowledge or skills. It involves the ability to meet complex demands, by drawing on and mobilising psychological resources (including skills and attitudes) in a particular context." (OECD, 2003, p.4)

21st Century Competencies

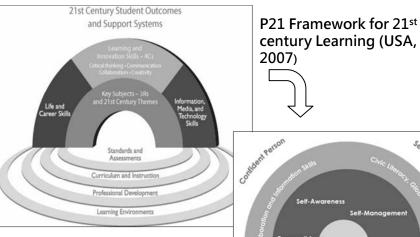


21st century skills grouped into three broad domains (National Research Council, 2012, p.2)

Cognitive Competencies: critical thinking, analysis, problem solving...

Interpersonal Competencies: collaboration, coordination, responsibility, leadership, trust...

Intrapersonal Competencies: adaptability, self monitoring, flexibility, career orientation, appreciation for diversity...



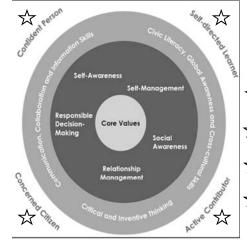
21st century Competencies

(Ministry of Education,

Singapore, 2015)

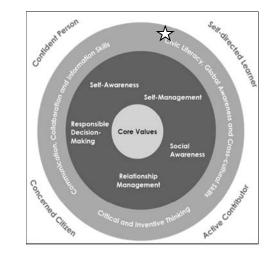
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21st Century Competencies

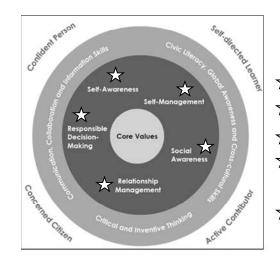


21st century competencies raised by <u>Singapore</u>:

☆Self-director learner (自主學習者) ☆Active contributor (主動貢獻者) ☆Confidence Person (自信個體) ☆Concerned citizen (關顧公民)



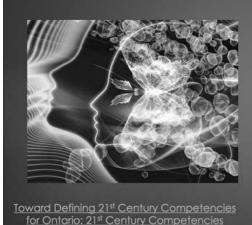
New content added: ☆ Civic literacy (公民素質) ☆ Global awareness (全球意識) ☆ Cross cultural skills (跨文化能力)



Paradigm shift to Core Values:

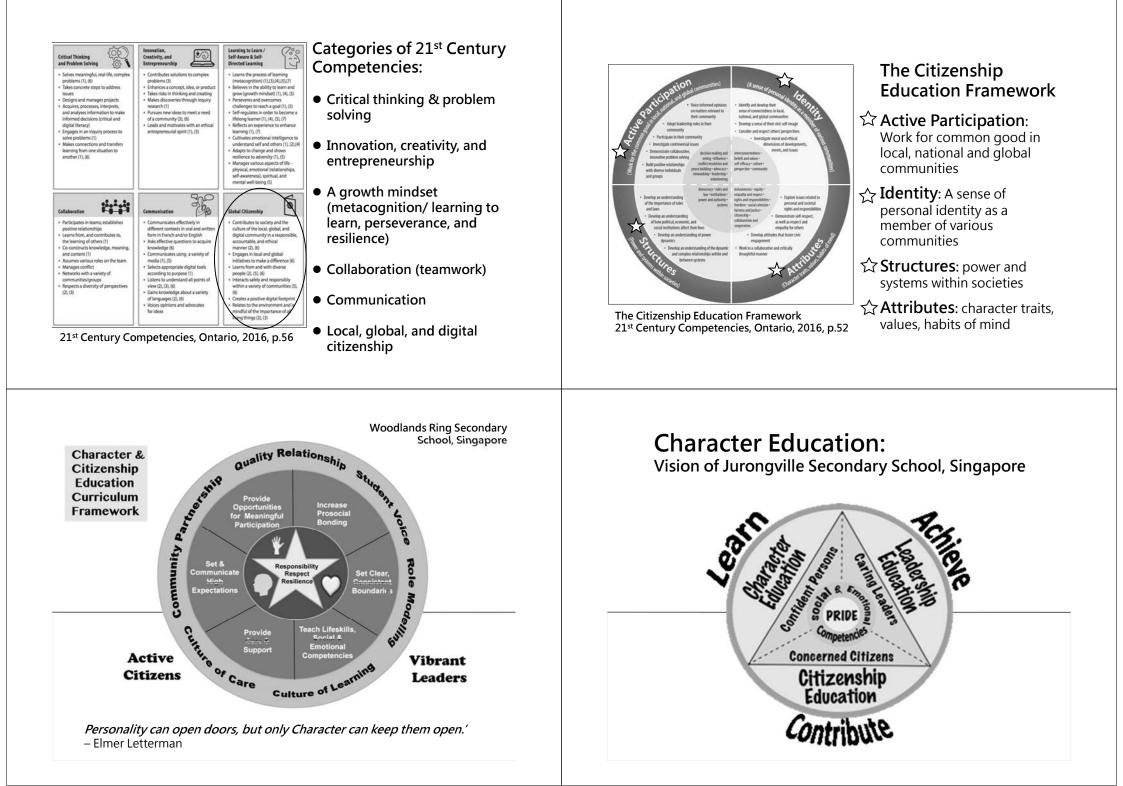
- ☆ Self-awareness (自省)
- ☆ Self-management (自理)
- ☆ Social-awareness (社會意識)
- ☆ Relationship management (關係管理)
- ☆ Responsible decisionmaking (負責任的決定)

Mapping 21st Century competencies



Technologies	Key Transformational Learning Practices/Contexts	21st Century Competencies
Social and Collaboration Support knowledge building Danger • brig • orling decasions • file sharing	 suffertic audiences student voice and choice student voice and choice student creation and lenters of knowledge (deceper learning) new partieshiga in learning inputy-based learning (induding project- and problem based learning) steely, cescriptive feedback 	Communication Collaboration Collab
Hybrid and Mobile Broaden access to education beyond the softool walls Exemptive • betwee • betwee • cloud technology	 student driven inquiry self-directed learning new patherships in teaming equity of access authentic, real-world learning tasks 	tesponability productivity analyse declaron making entermation therapy
Visualization Help students to master abstract concepts Examples • 30 pintens • Interactive maps • graphing toxis • cancept megang toxis	differentiated instruction student discovery/inastery elimination of barriers to higher-order thinking learner autonomy timely, descriptive feedback	coordination conversion conversion metalogistion analysis numeracy problem solving and massering
Storyteiling and Creation Develop students as knowledge creations and communicators Examples: • vites/ music production tools • greamlation tools	 student choice and voice student creation and iteration of knowledge (deeper learning) new partnerships in learning authentic, neal wold learning tasks and autiences 	communication collectionston collectionston interlectual interpretate cossifyity imneeabon digital interacy digital oppenhop
Immersive Media and Simulation Stude learning in real-world and augmented realities Exemption • vical worlds • interactive games	authentic, real world learning tasks student creation student discovery/ mastery personalized learning timely, descriptive feedback	 seeperation serified resolution surfasily strative set-afficery, interve protein serving and resolution creativity and investor set-afficery, and investor

21st Century Competencies, Ontario, 2016, p.36





Part 4: Educators

What are 21st century Educators?





The Visionary

- can look at others ideas and envisage how they would use these in their class
- looks across the disciplines and through the curricula
- leverage other fields to reinforce their own teaching and the learning of their students.

ause the people who are crazy think they can change the wo



The Collaborator

- able to leverage collaborative tools, such as Ning, Blogger, Wikispaces, MSN, to enhance and captivate our learners.
- must be collaborators of sharing, contributing, adapting and inventing.



The Learner

- expect students to be life long learners
- continue to absorb experiences and knowledge
- to stay current and adapt

and adapt.

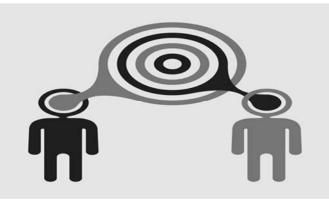
other trust students

The Risk taker

- take risks and sometimes surrender yourself to the students knowledge
- have a vision of what you want and what the technology can achieve, identify the goals and facilitate the learning
- have the students teach each

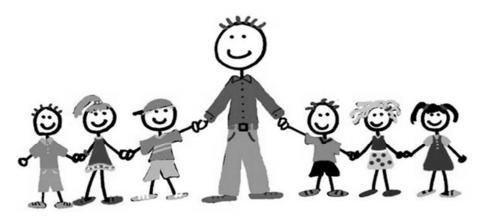
The Communicator

- "Anywhere, anytime" learning
- fluent in tools and technologies that enable communication and collaboration
- go beyond learning, know how to facilitate, stimulate and control it, moderate and manage it.



The Model

- model the behaviours that expect from our students
- teach values
- models reflective practice
- model a number of other characteristics: tolerance, acceptance, global awareness, reflection



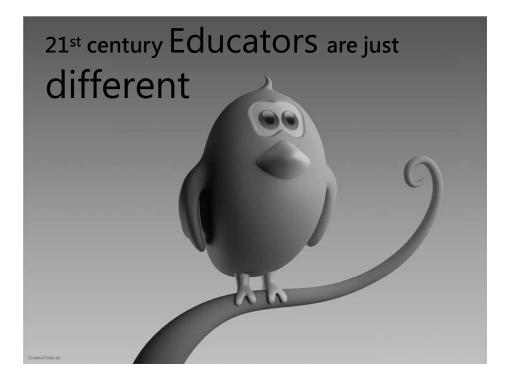
21st century **Educators are...**



- The Adaptor
- The Visionary
- The Risk taker
- The Learner
- The Communicator
- The Model
- The Leader
- A Person and a global citizen

The Leader

- champion of the process of ICT integration
- the quiet technology coach, the ICT Trainer and a teacher leading by example



Where to invade next?



What did the Finland Teachers Tell?

- Principal: They (students) should <u>have more time to</u> be kids, to be young stuffs and to enjoy life.
- Teacher: Yes, they (students) can climb trees if they want. While climbing tress, they will find different insects. When they come to school next day, they should <u>tell me what</u> they find while climbing trees.
- Teacher:Teach them (students) to be happy, respect
others and themselves. Yes, I teach Math.

Children are born with wings, TEACHERS HELP THEM TO FLY

