

Prof. Rex Li's Writings

Category: Education

Sub-category: Global Education

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Title:

Summary of Readings on 21 st Education

Year Written: 2019

Summary/ Abstract: This summary is a summary of 14 writers or organizations on future education.

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Summary of Summaries of Readings on 21st Century Education

Fadel / CCR (2015)	Broad comprehensive framework (4 dimensions) (32 frameworks) but not critical of 21 Century.		
Singh (1991)	From 19-20 th Century vision, (Social / personal, with values / morality) but don't see AI, moodle impact		
Mynbayeva (2018)	<ul style="list-style-type: none"> ● Good table of 20 Century VS 21 Century generation ● Points to learning by connection and network community ● Mentions UNESCO 2010 8 pedagogy ● She catalogs 300 innovate methods! 		
Pahoniov (2014)	<ul style="list-style-type: none"> ● Sharing of Science Leadership Academy (SLA) ● 4 transformations / paradigm shift ● 5 core values for inquiry-based learning ● How to ask essential questions ● He saw basic as needed 		
Marope (2018?)	<ul style="list-style-type: none"> ● IBE wants to give broad supra view on curriculum ● He identifies 12 drivers of change ● There is internationally Agreed Goals (IAGs) ● Curriculum as spearhead of innovation ● 8 goals of curriculum 		
Chu (2017)	<ul style="list-style-type: none"> ● 3 skill sets <ul style="list-style-type: none"> Learning and Innovation Digital literacy Life/career skills <p>(similar to Applied Education Systems) (AES)</p> ● 12 components – expand Fadel (7C) <div data-bbox="539 1727 1390 1989" style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>3Rs × 7Cs = Twenty-First Century Learning</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;"> Reading wRiting aRithmetic </td> <td style="width: 50%; padding: 2px;"> Critical Thinking and Problem-solving Creativity and Innovation Collaboration, Teamwork, and Leadership Cross-cultural Understanding Communication and Media Fluency Computing and ICT Fluency Career and Learning Self-reliance </td> </tr> </table> </div>	Reading wRiting aRithmetic	Critical Thinking and Problem-solving Creativity and Innovation Collaboration, Teamwork, and Leadership Cross-cultural Understanding Communication and Media Fluency Computing and ICT Fluency Career and Learning Self-reliance
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Education 2030 Agenda

2000	Darkar Framework	<ul style="list-style-type: none"> ● Education For All (EFA) ● Six Goals <ul style="list-style-type: none"> - From early child education to quality of education ● Match with Millennium Development Goals, MDG for 2015
2015	World Education Forum Incheon Declaration	<ul style="list-style-type: none"> ● Logical continuation of EFA and MDG ● Education 2030 Framework for Action <ul style="list-style-type: none"> - Lifelong learning - Sustainable Development Goals
2030	Education Agenda	<ul style="list-style-type: none"> ● 10 Targets (See below)

Ten targets to achieve the Education 2030 Agenda

The 10 targets of Sustainable Development Goal 4 encompass many different aspects of education. Seven targets are of expected outcomes and three are means of achieving these targets.

1. Universal primary and secondary education: By 2030, ensure that all girls and boys complete free, equitable and quality primary and secondary education leading to relevant and effective learning outcomes.
2. Early childhood development and universal pre-primary education: By 2030, ensure that all girls and boys have access to quality early childhood development care and pre-primary education so that they are ready for primary education.
3. Equal access to technical/vocational and higher education: By 2030, ensure equal access for all women and men to an affordable and quality technical, vocational and tertiary education, including university.
4. Relevant skills for decent work: By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship.
5. Gender equality and inclusion: By 2030, eliminate gender disparities in education and ensure equal access to all levels of education and vocational training for the vulnerable, including persons with disabilities, indigenous peoples and children in vulnerable situations.
6. Universal youth and adult literacy: By 2030, ensure that all youth and a substantial proportion of adults, both men and women, achieve literacy and numeracy.

7. Education for sustainable development and global citizenship: By 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development.
8. Effective learning environments: Build and upgrade education facilities that are child, disability and gender sensitive and provide safe, non-violent, inclusive and effective learning environments for all.
9. Scholarships: By 2020, substantially expand globally the number of scholarships available to developing countries, in particular least developed countries, small island developing States and African countries, for enrolment in higher education, including vocational training and information and communications technology, technical, engineering and scientific programmes, in developed countries and other developing countries.
10. Teachers and educators: By 2030, substantially increase the supply of qualified teachers, including through international cooperation for teacher training in developing countries, especially least developed countries and small island developing States.

More Search:

(1) Wiggins and McTighe

Essential questions: opening doors to students understanding

(2) Trilling and Fadel (2009) 21st Century skills

(3) UNESCO (2010)

T & L for a sustainable Future

(4) What's IBE

What's CCR and Fadel

What's Global Curriculum Network

(5) Delors (1996)