Towards a Knowledge Building Teacher Community

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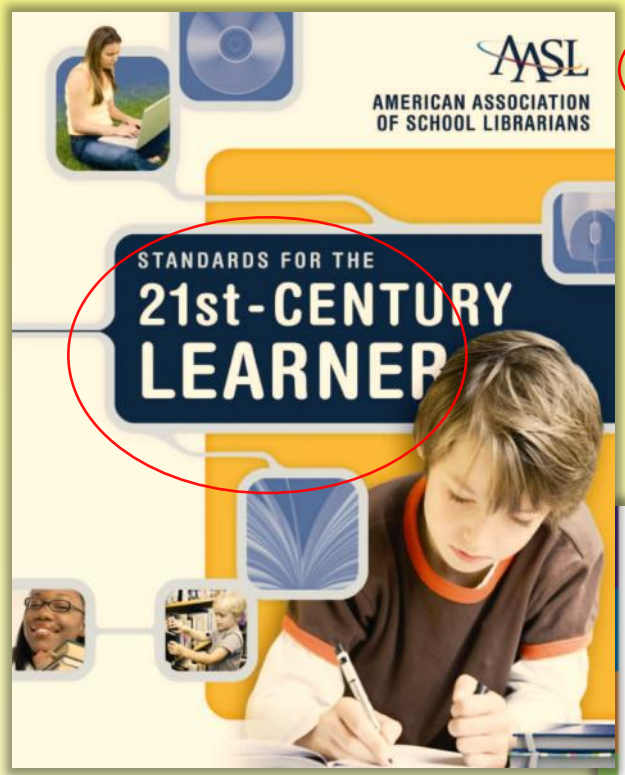
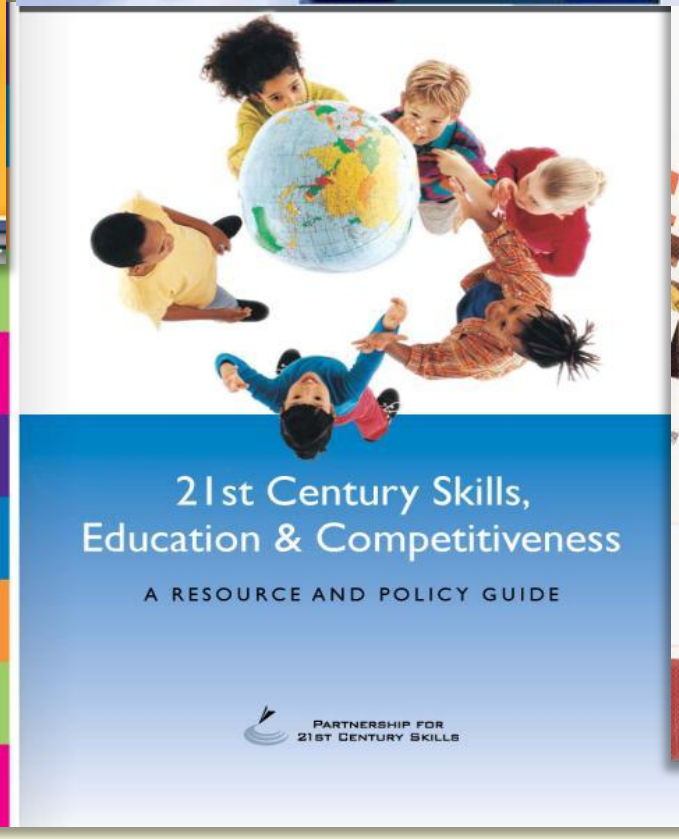
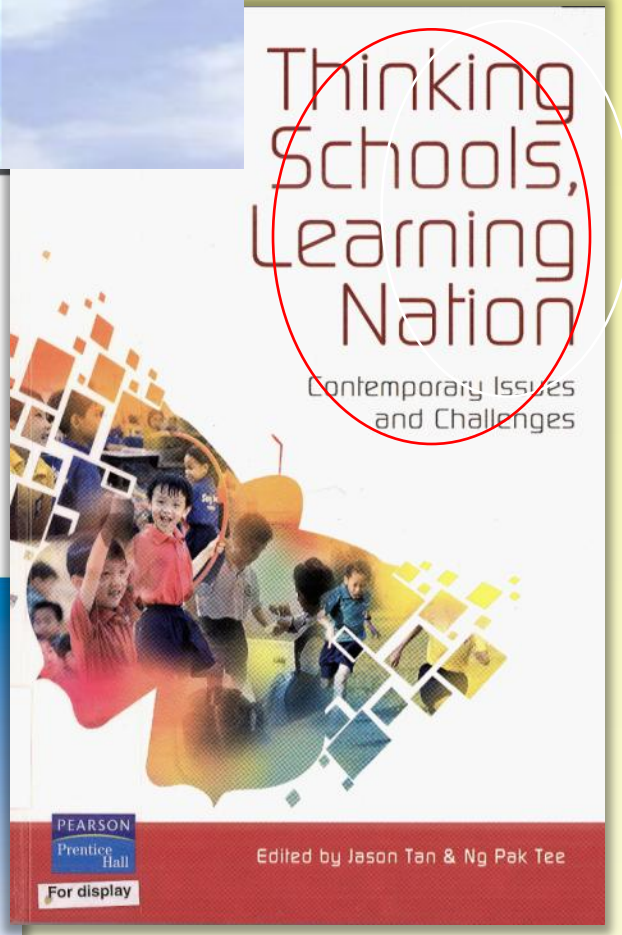

AASL
AMERICAN ASSOCIATION OF SCHOOL LIBRARIANS
STANDARDS FOR THE
21st-CENTURY
LEARNER

Learning to Learn
Healthy Lifestyle
Breadth of Knowledge
Learning Skills
Language Skills
Habit of Reading
National Identity
Responsibility
Basic Education Curriculum Guide
Building on Strengths
(Primary 1 – Secondary 3)
Four Key Tasks
Reading to Learn
Moral & Civic Ed
IT for Interactive Learning
Project Learning

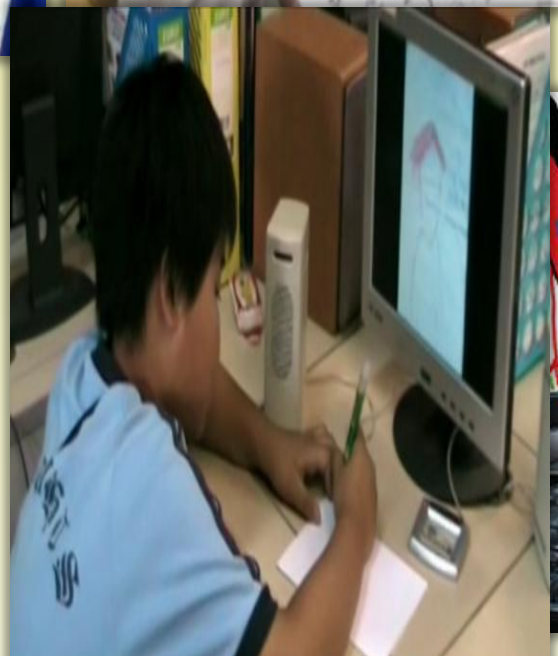

21st Century Skills, Education & Competitiveness
A RESOURCE AND POLICY GUIDE
PARTNERSHIP FOR 21ST CENTURY SKILLS


Thinking Schools, Learning Nation
Contemporary Issues and Challenges
PEARSON
Prentice Hall
For display
Edited by Jason Tan & Ng Pak Tee

Transmission
Chalk & Talk

collaborative
culture

BUT HOW?



Create
Innovate

KBTN: A Different Approach

How do I help my students to discuss? to collaborate? To think better?

How do I help my students to build knowledge?

How do I cope with these things changing all the time?

Beyond 'know-how'….

Be a knowledge builder

Be a member of a kb community

What is Knowledge Building?知識建構

Members working together to contribute and to add value to the community (Scardamalia & Bereiter, 2006)

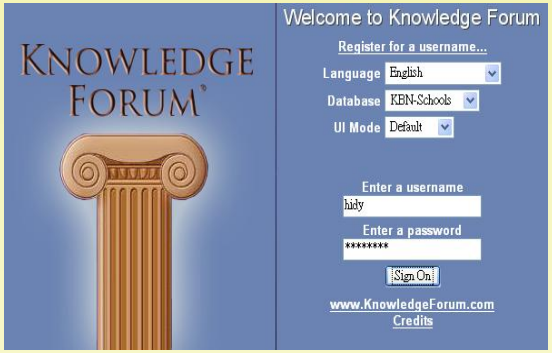
1)Epistemic Agency (active)

創建新知, 解決問題

2)Improvable Ideas (deepen)

深化討論

3) Community Knowledge 群雄獻技，互補不足， 共享成果



For my students?

For Teachers too?

Not You but We

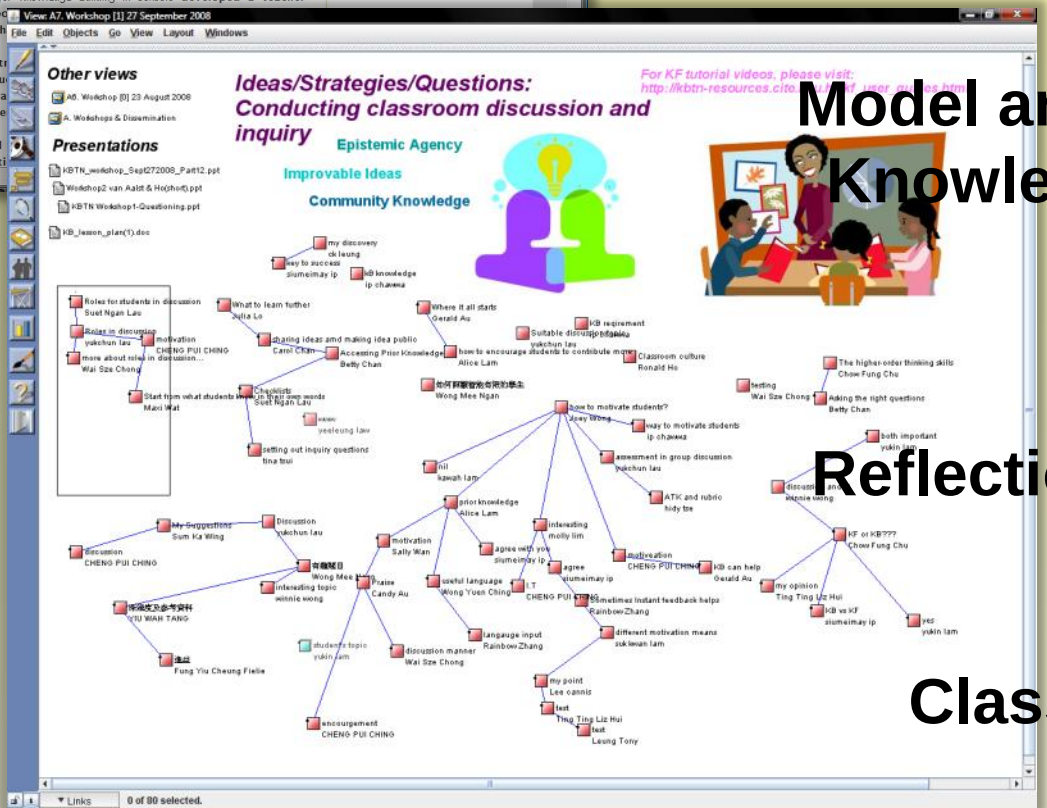
KBTN Approach

Can you teach others how to cook? Maybe .. but

Teachers need to experience the ‘innovation’ if they want to practice the innovation…

Watch out: Not just the content…but the approach (e.g., RT, grouping, ask questions, summarize, paper on board, select key questions, working on KF)

Not just procedures.. BUT



Working Together as a Community

Model and Experience Knowledge Building

Reflection for principles

Classroom practice

KLA Meeting

Peer coaching
School visit

Workshops

Expert sharing..
dissemination

Design meetings
2008/10/16

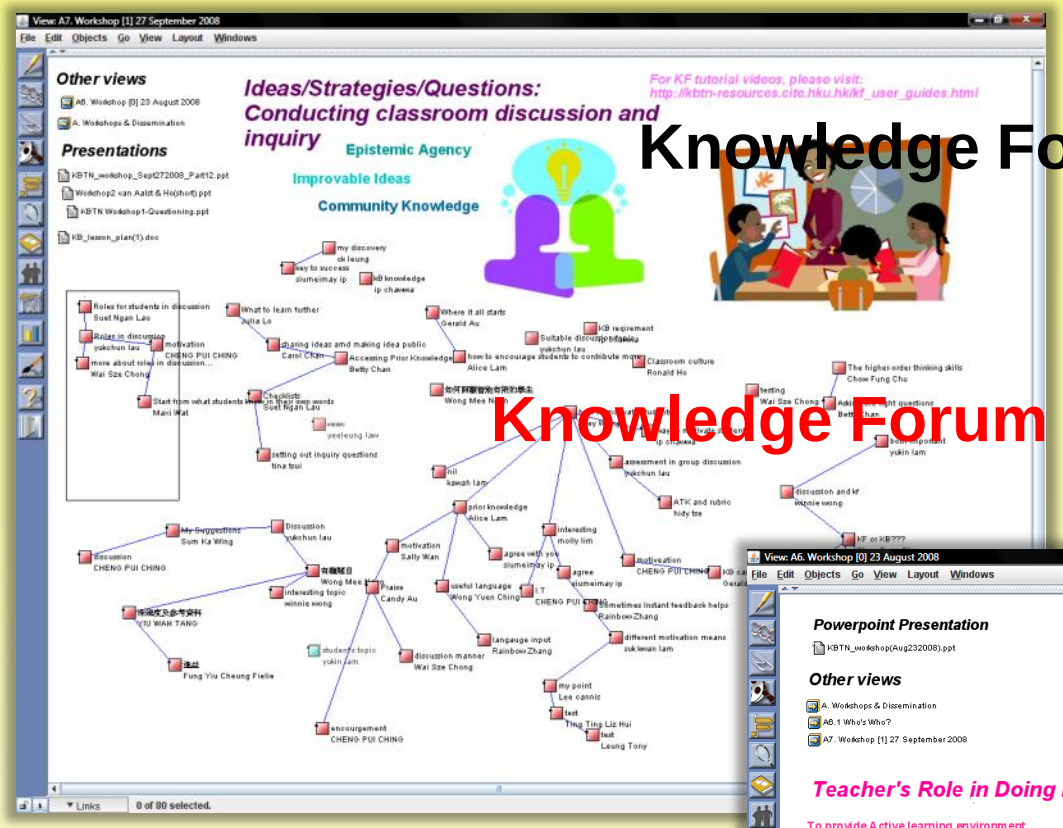
Teachers empowering teachers

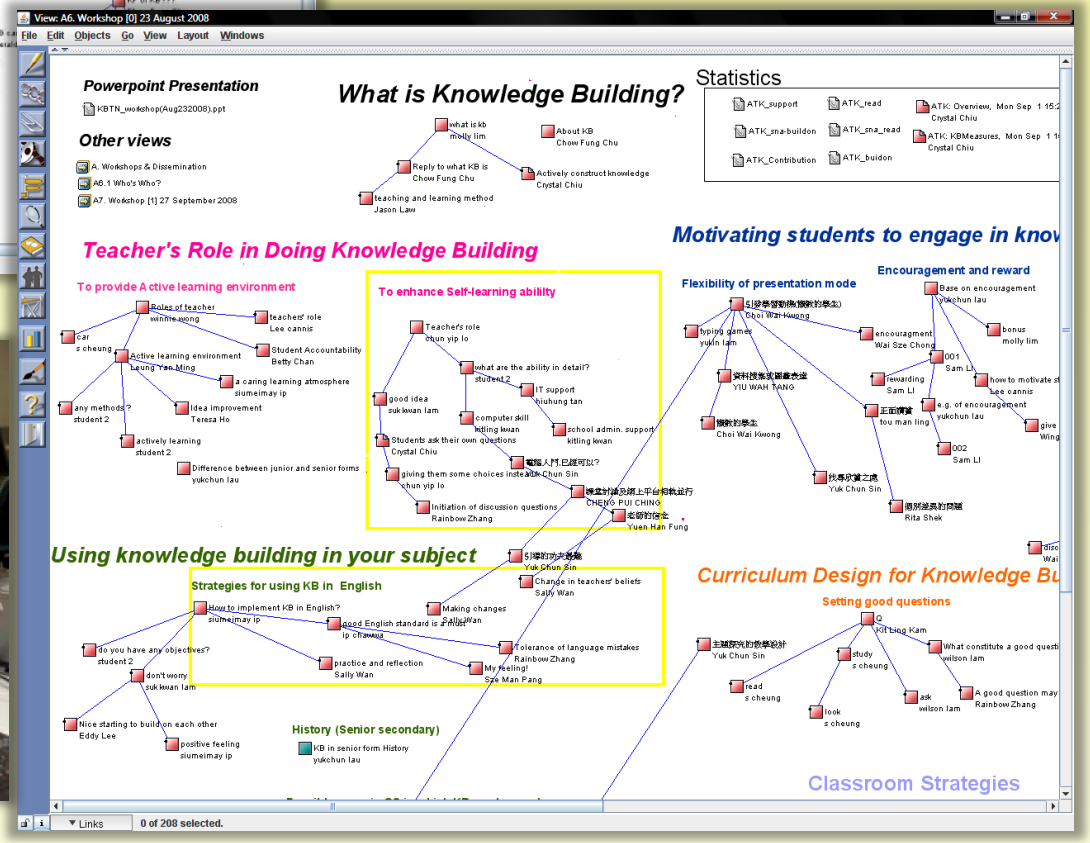
Students as teachers

Knowledge Building in Action

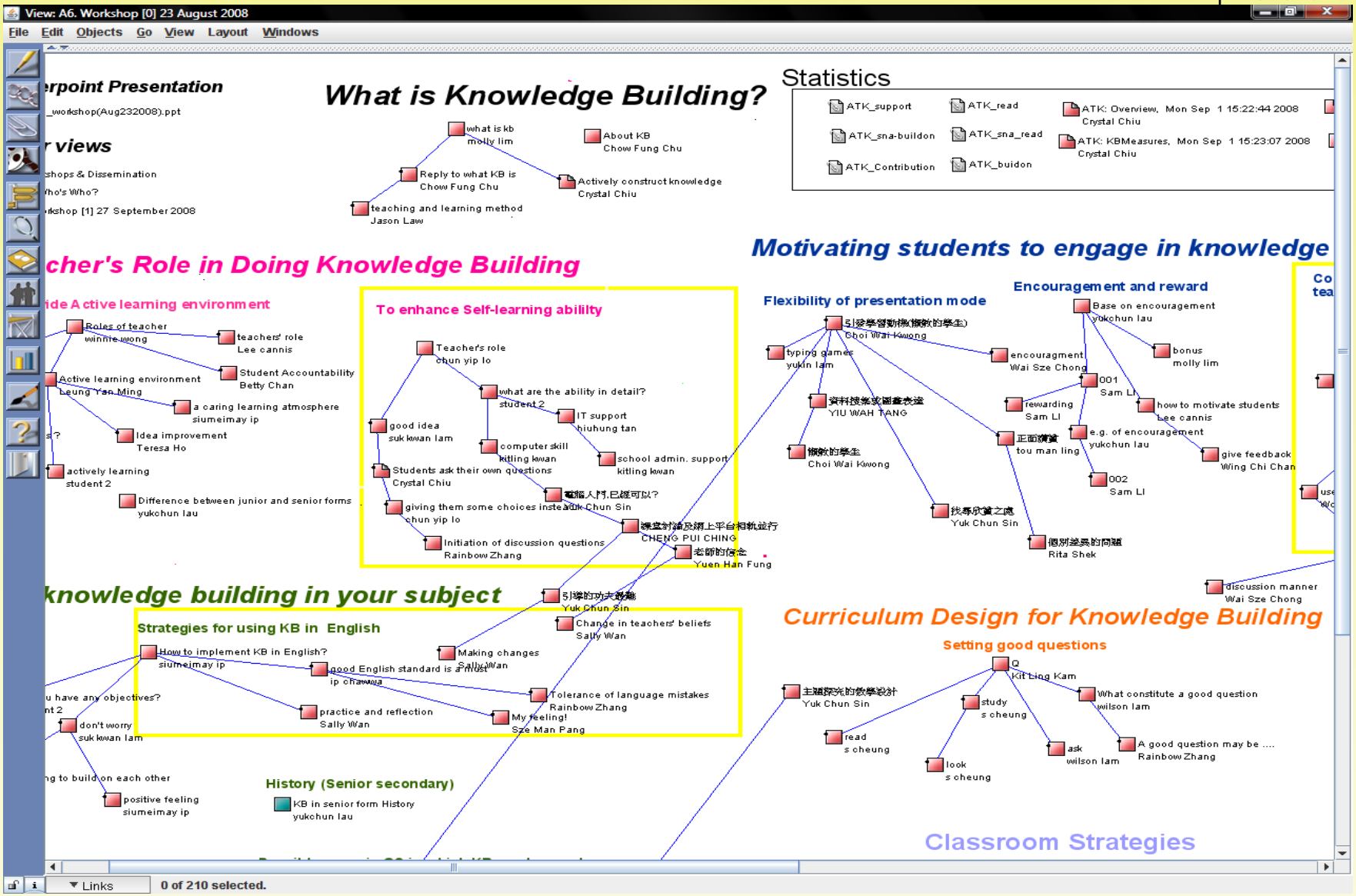
Knowledge Forum for Resources

Knowledge Forum for collective advances

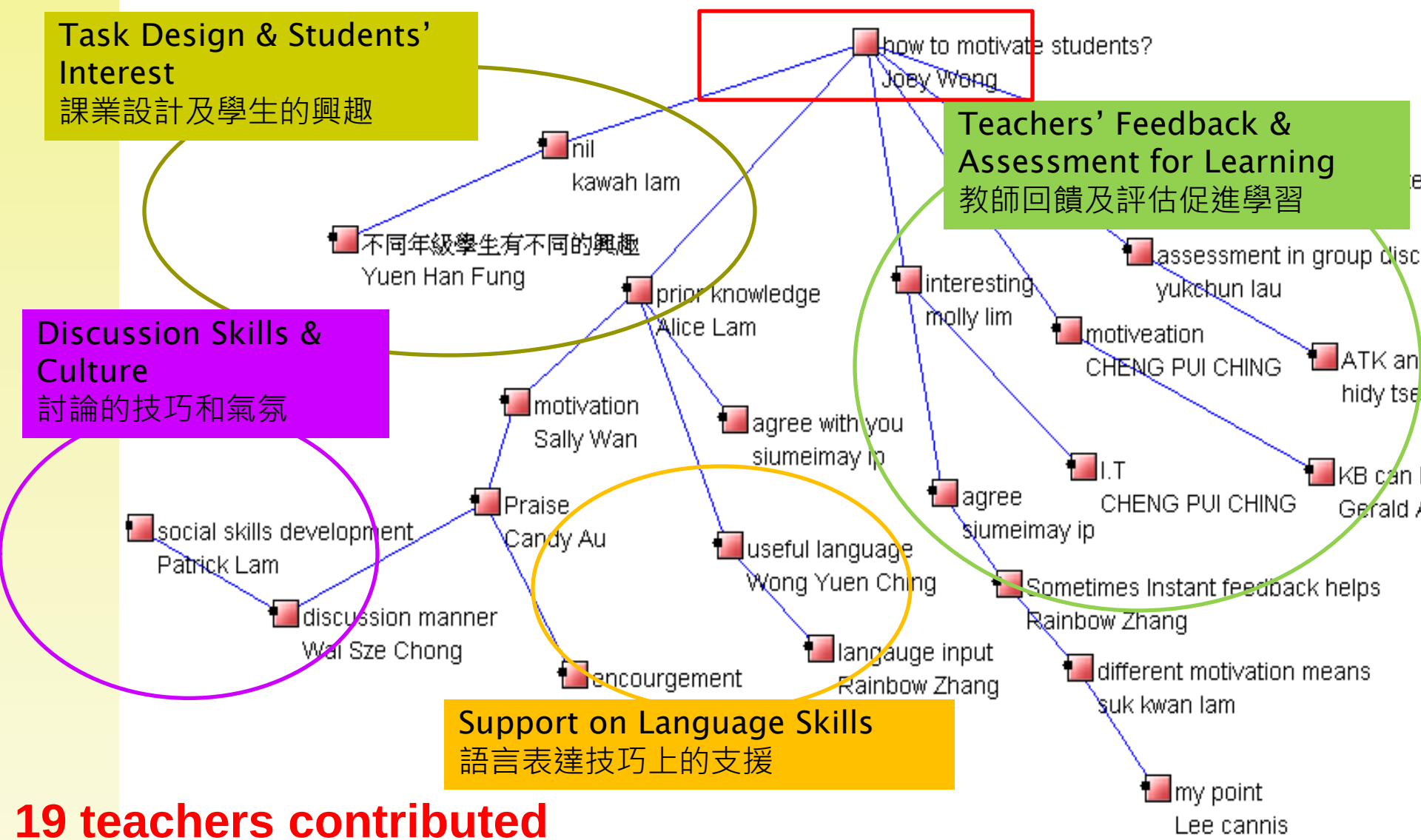




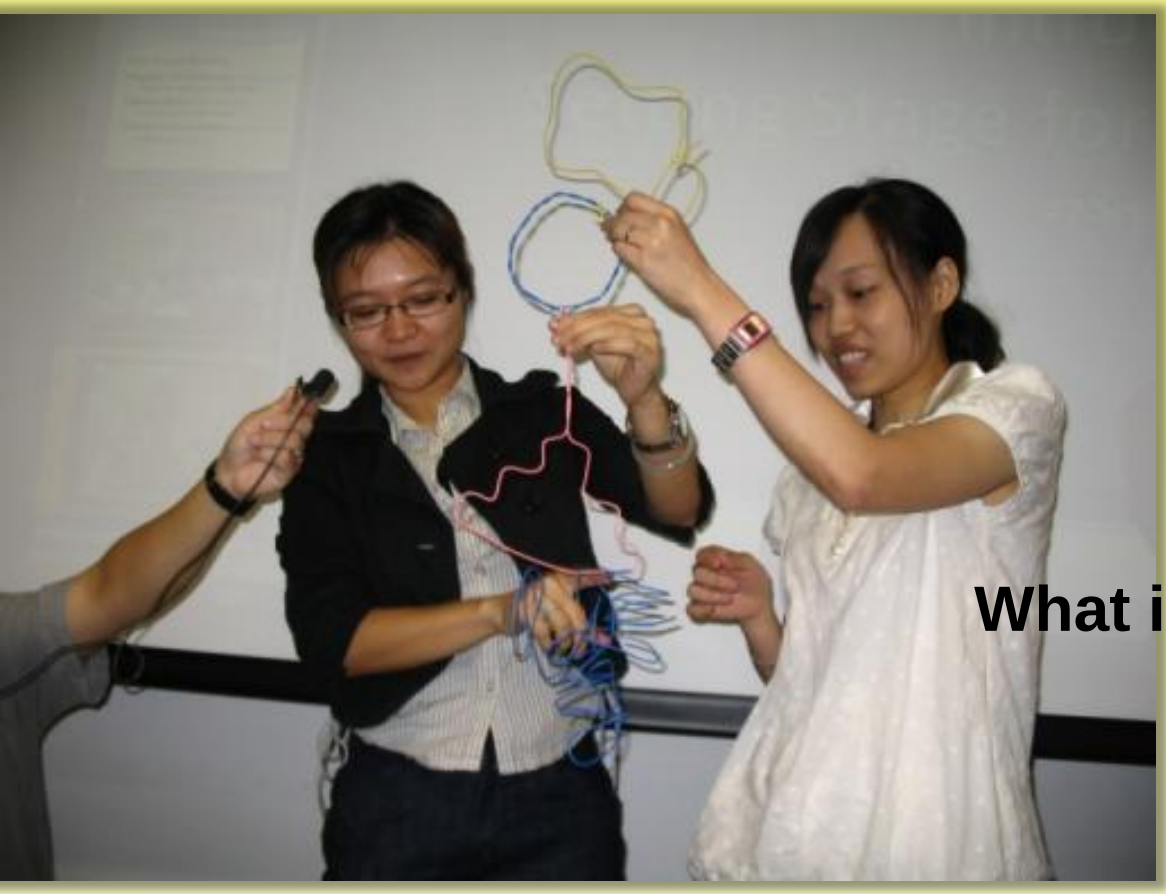
What new network teachers created collectively



Who started the problem? Who wrote? What are the themes?



19 teachers contributed



What is knowledge?

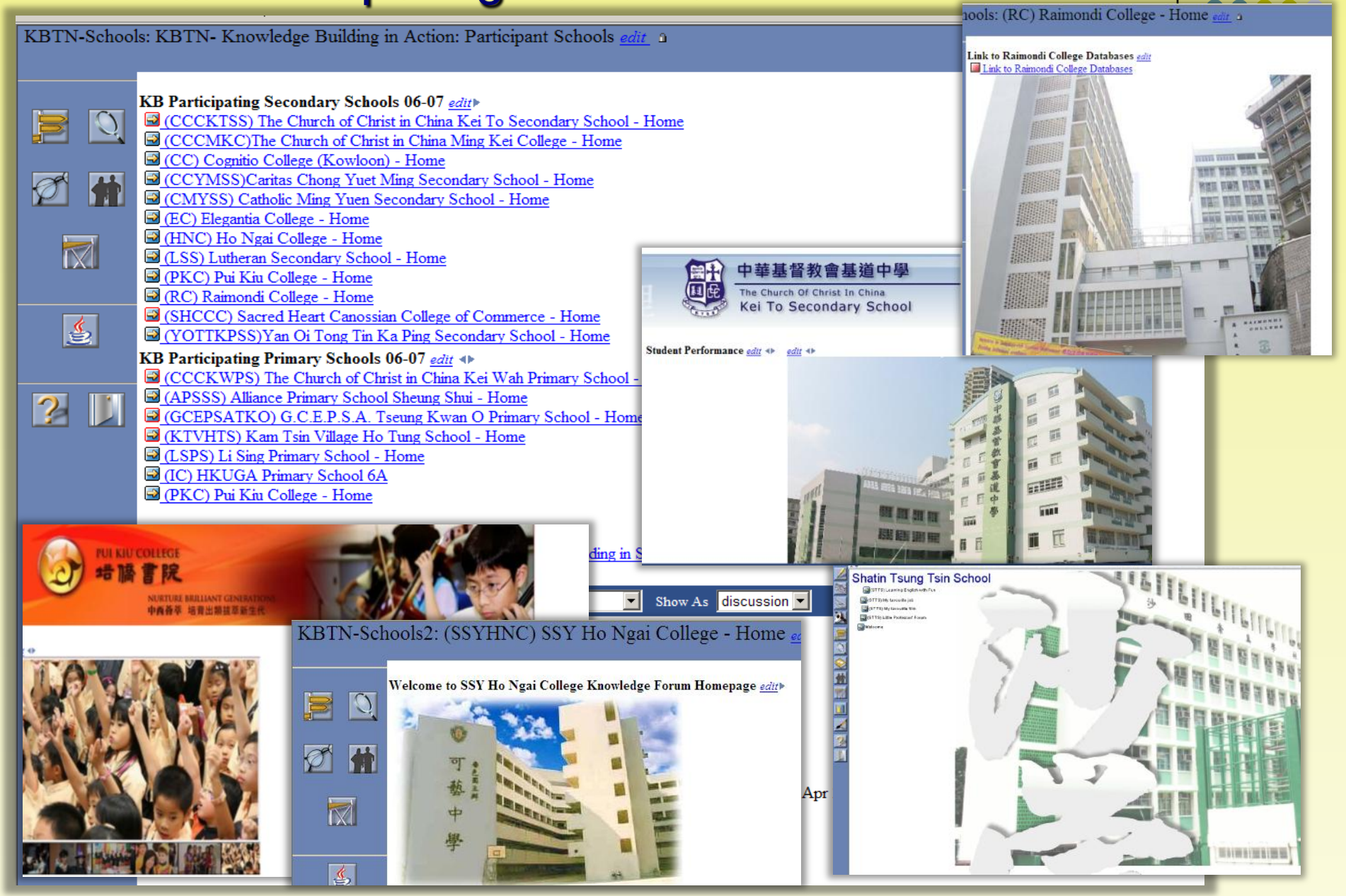
Building knowledge Together…

We as a community

Contributing and Advancing Together

- Let us Hear More from our Valuable Community Members

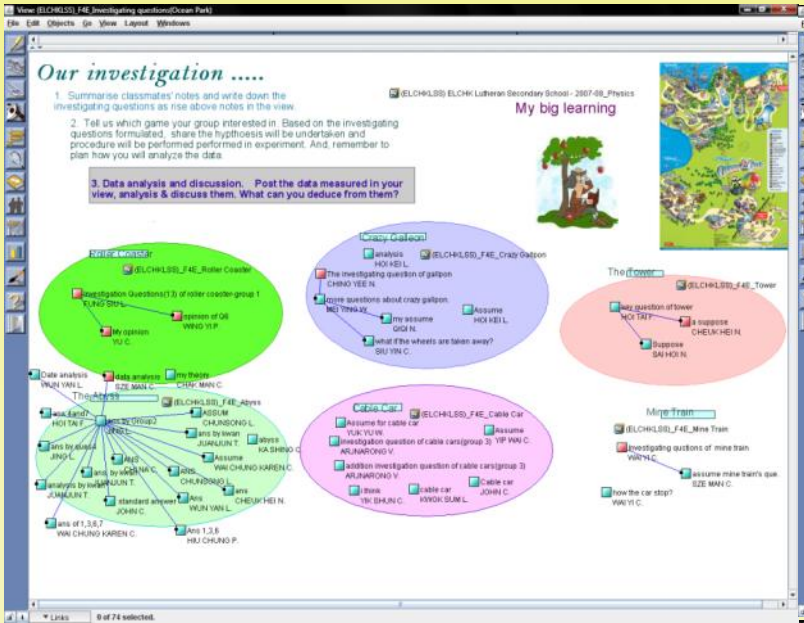
Some Participating Schools

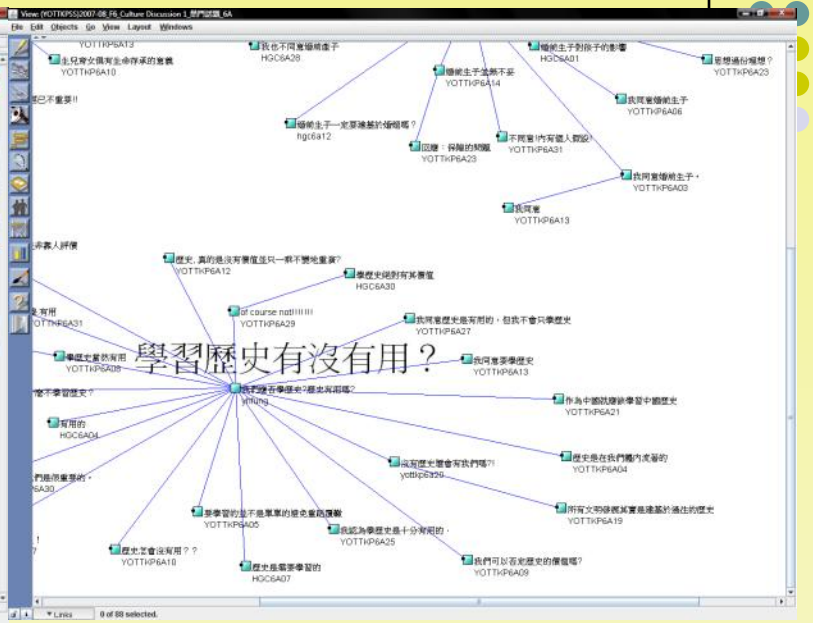


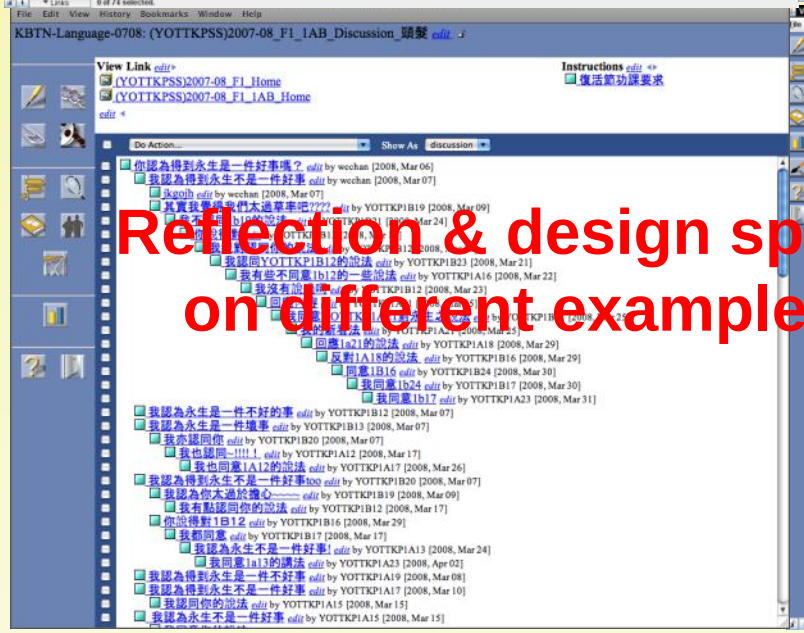
Group A2
Chinese

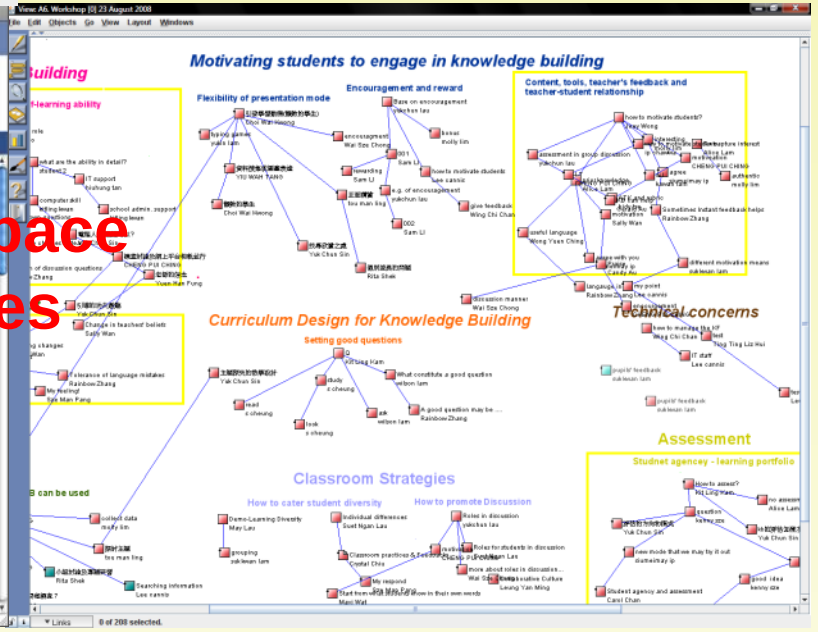
Group A1
English

Diverse expertise in Knowledge-building community

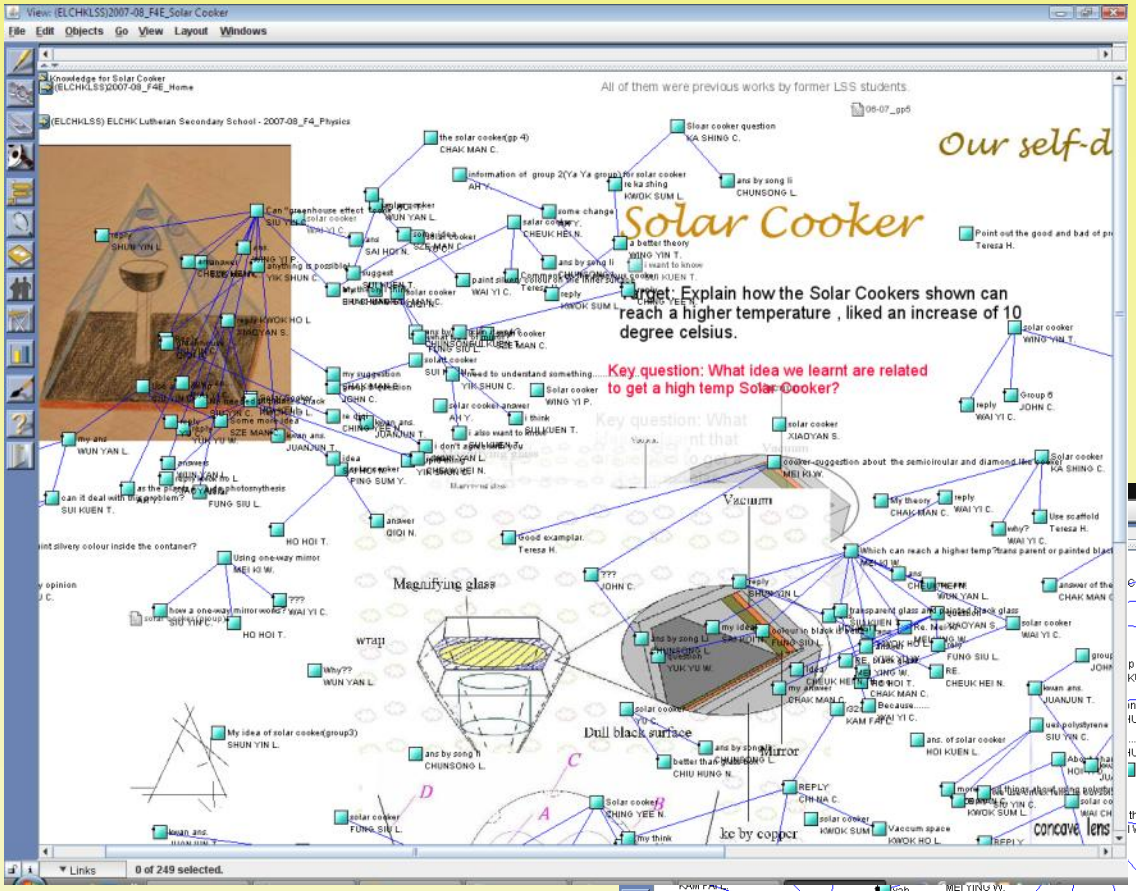


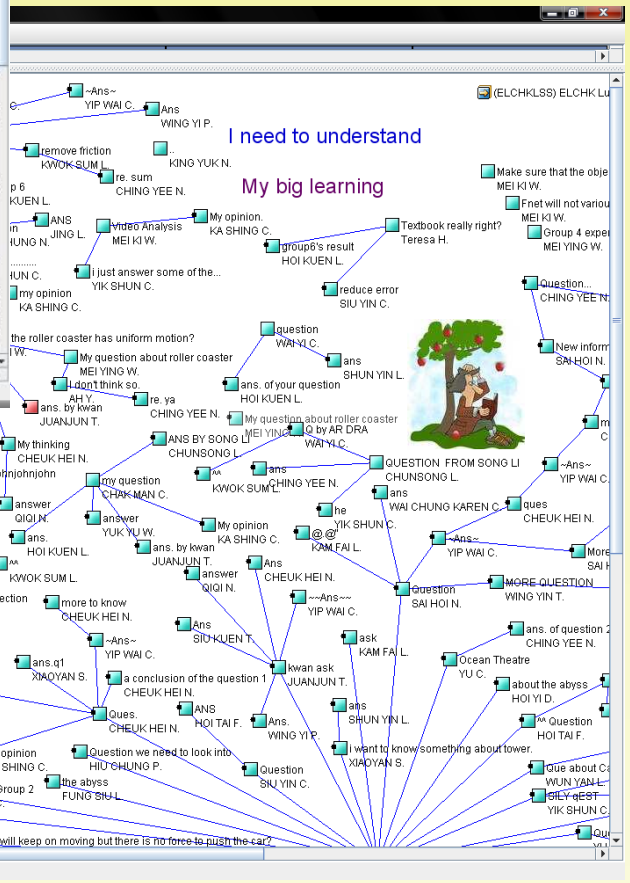




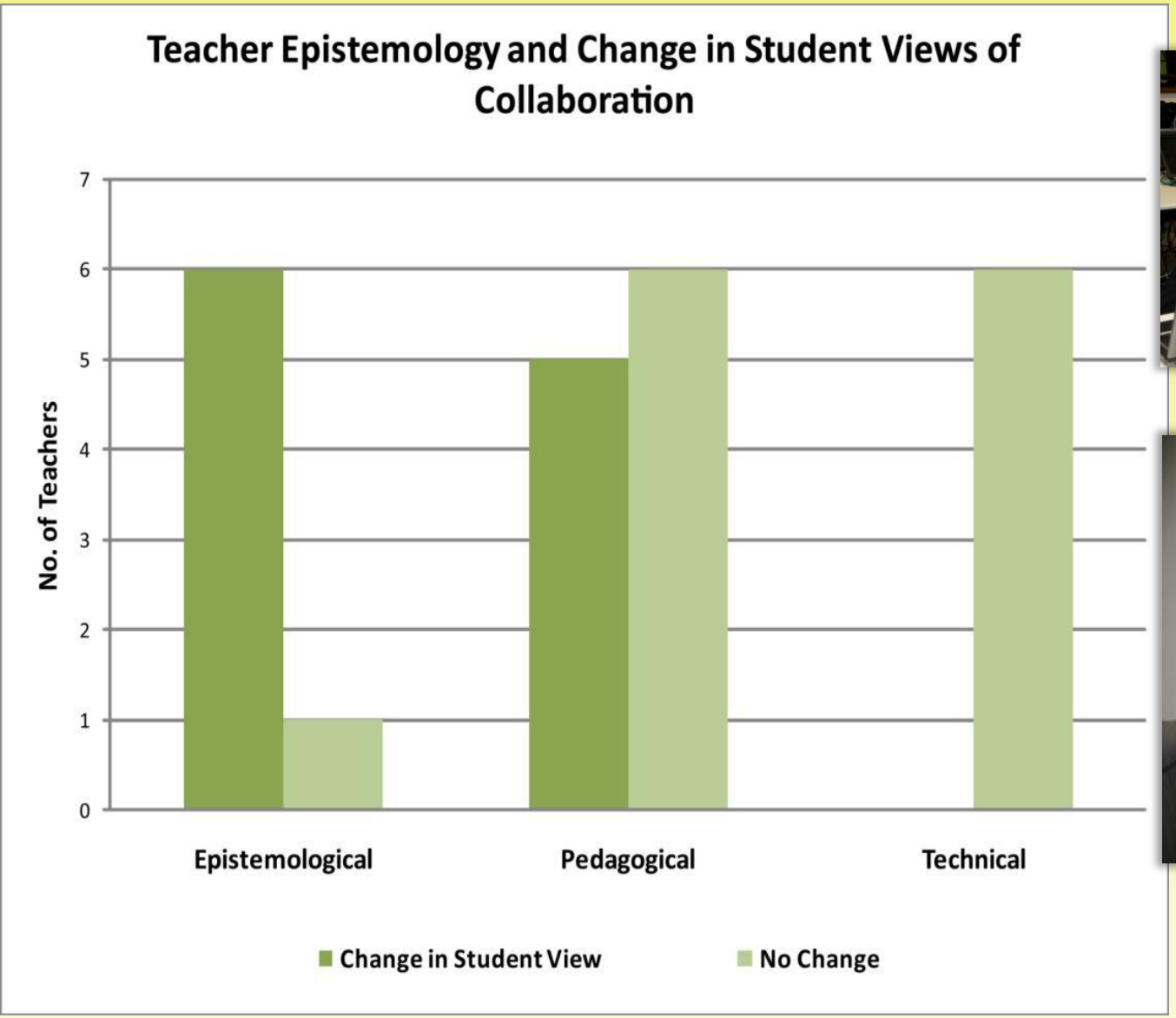


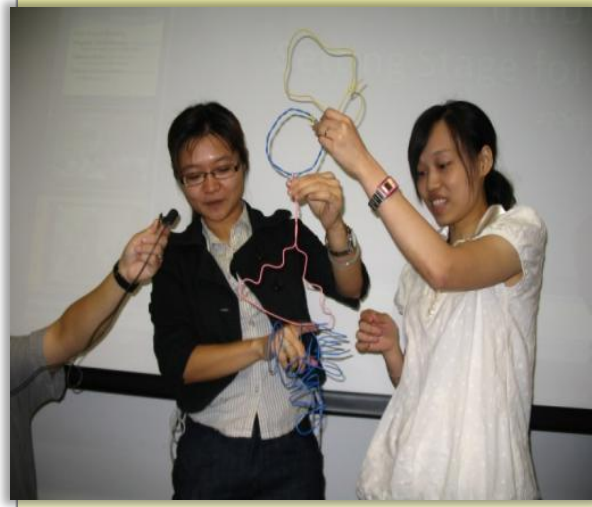
Reflection & design space on different examples

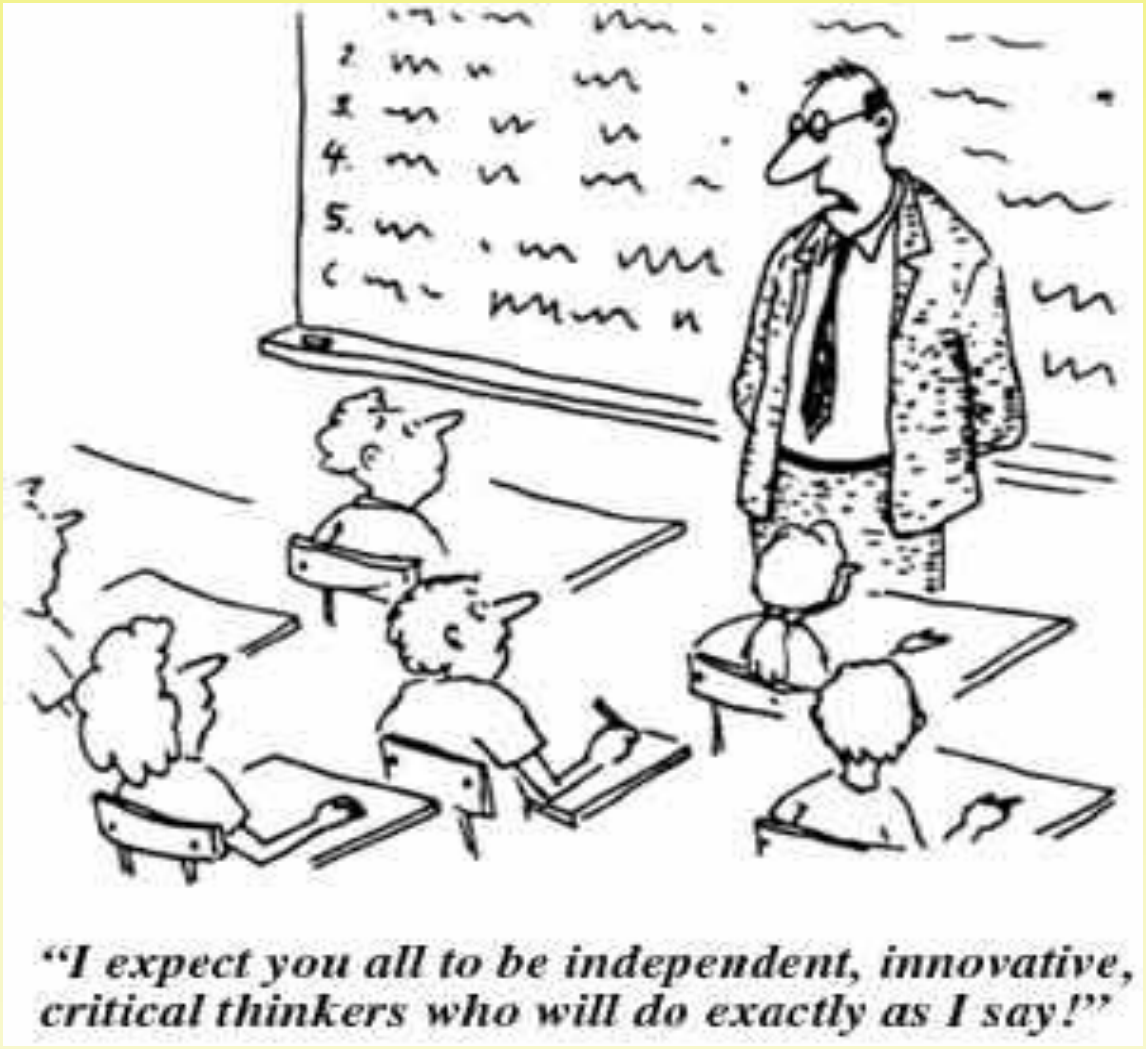




Technology-Based Assessment to scaffold knowledge building


Teacher Epistemology and Change in Student Views of Collaboration
No. of Teachers
0
1
2
3
4
5
6
7
Epistemological
Pedagogical
Technical
Change in Student View
No Change

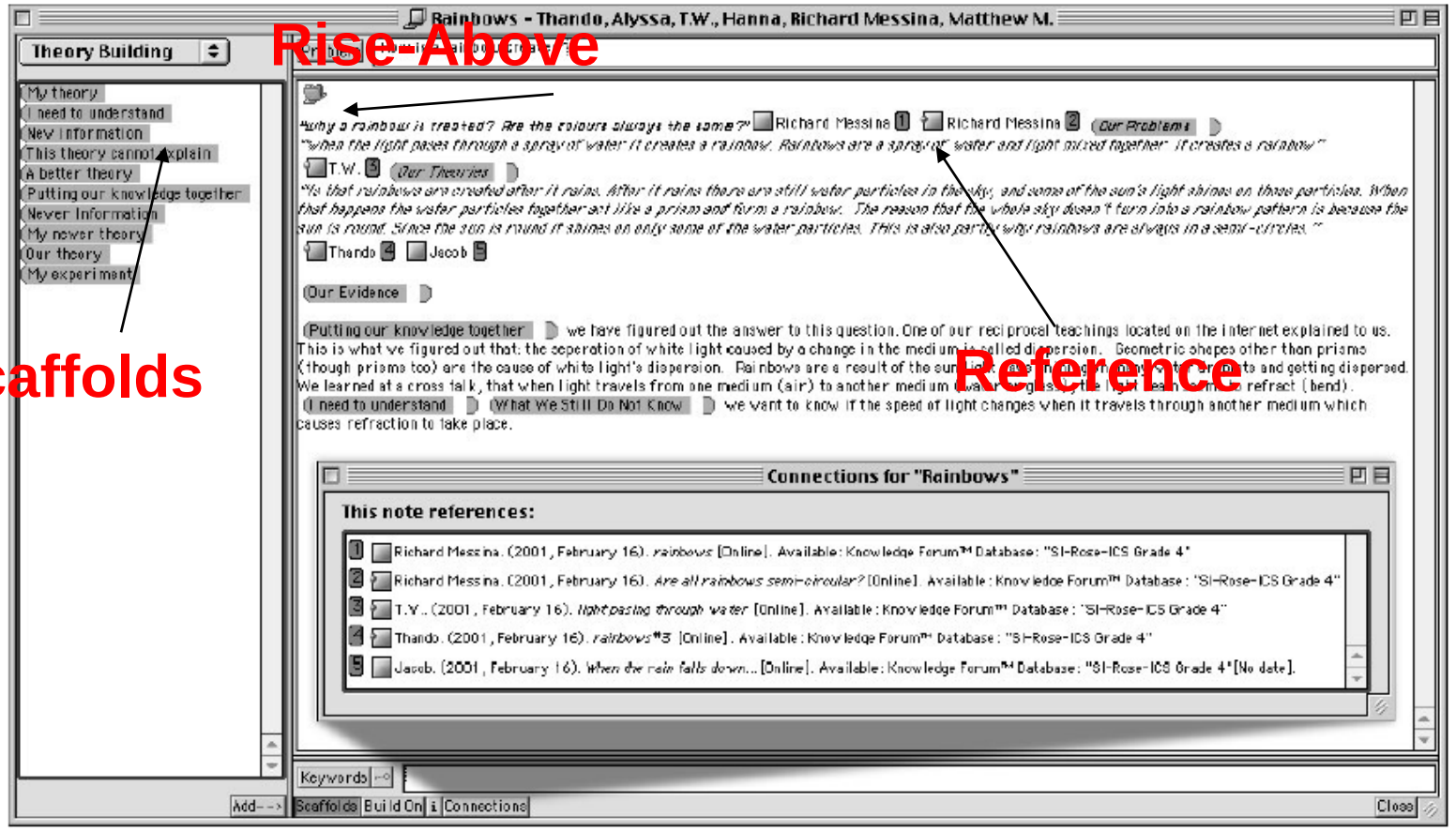




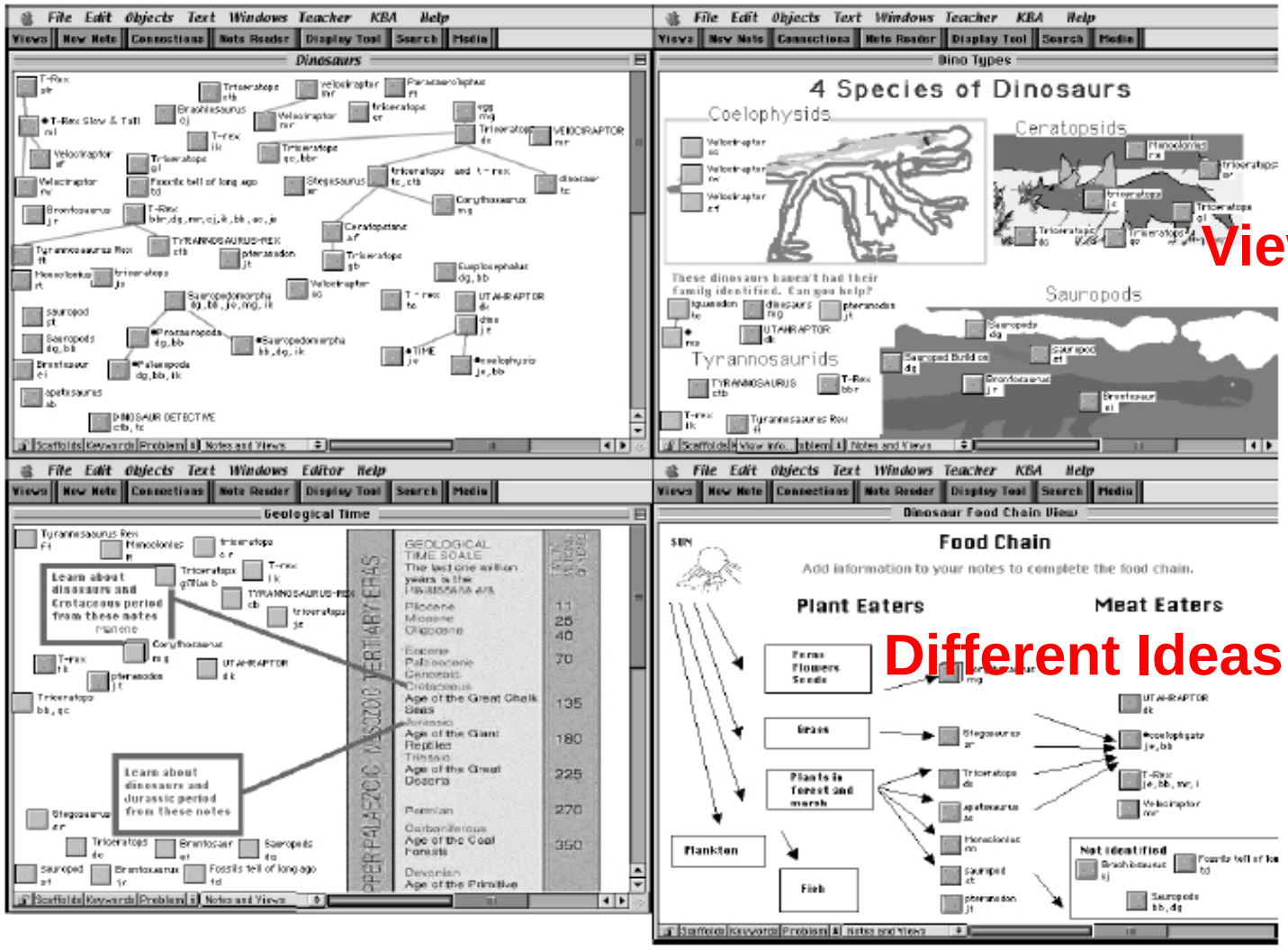
I expect you all to be independent, Innovative, critical thinkers who will do exactly as I say!

Knowledge Forum

1. Thinking prompts, 2. Reference, 3. Rise-Above (Improvable idea)



Different representations of knowledge (Scardamalia & Bereiter, 2006)



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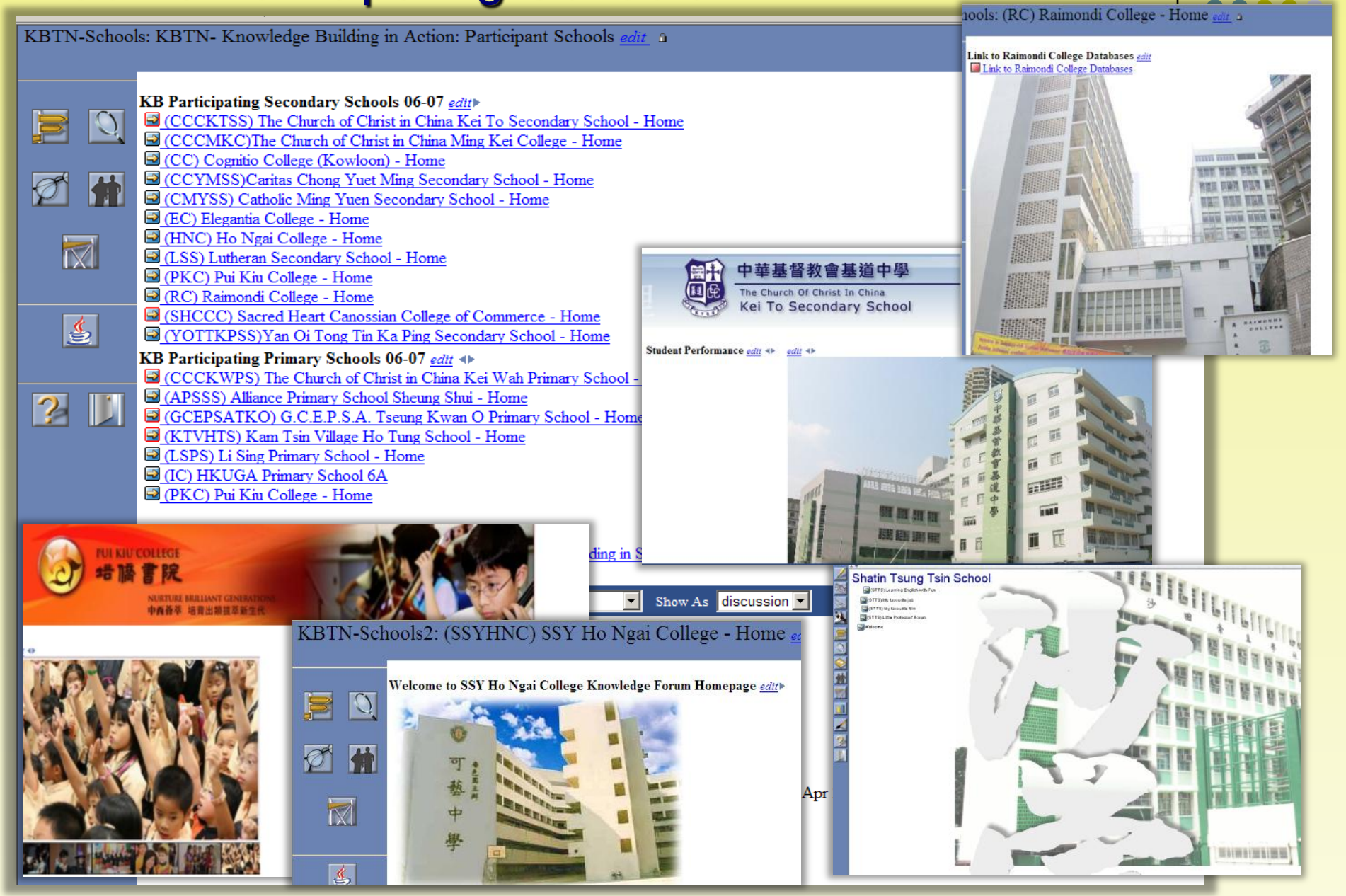


Useful readings

Dynamics	Specific questions	Analyses	Expected performances
Idea improvement	How do questions and ideas evolve and refine over time ?	Trace the change of student's ideas.	Students shift toward a more scientific view.
Real ideas, authentic problems	How are real-world empirical data used ?	Use of empirical data as evidence on quality of ideas.	Students bring valuable data into the discourse and make sense of them.
Community knowledge	How do individual contributions spread and how are they used ?	Analyze contributions to the work of others and related knowledge gains.	Students interact in a way that supports conceptual advancement.
Constructive use of authoritative sources	What are the patterns of their use ?	Use of expert resources.	Students integrate expert and go beyond given information to generate and improve their ideas.
Overall	Overall measure of knowledge gains	Pre- and post-test comparisons; analyses of student portfolios. Correlations.	Improvement of performance pre- to post-test; Students' portfolio notes reflect high levels of scientificness and epistemic complexity. Indicators of the dynamics correlate with quality of ideas in portfolio notes.

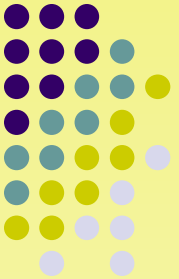
Changing Demands

21st century learning

…….3+3+4 Reform Goals

- Literacy
- Critical Thinking, Higher-Order, Inquiry
- Project Learning
- Information Technology
- Creativity - Knowledge Creation for 21st Century

Useful readings



- Practice what you Preach!

Welcome to Knowledge Building TPD Network Home edit

Welcome to the KB Teacher Professional Development Network

This is where both experienced and novice KB teachers can learn about how to conduct knowledge building activities in their teaching by using the Knowledge Forum (KF). This is also a place for all teachers to share their views and experiences of using KF, and to look at the exemplars of KB work done by other teachers. Come here often to witness the growth of the network community of which you are a valuable contributor.

1. Knowledge Building Pedagogies and Databases
2. Knowledge Building Theoretical Issues
3. Knowledge Building Resources
4. Knowledge Building Teachers Network
5. Knowledge Building in Action
6. Knowledge Building Technology
7. Seconded Teacher Community