



3R x 7C = 21st Century Skills

"Tomorrow's learners will need guides who will take them on fundamentally different journeys."
***Dean Shareski, ATLE Conference

Brent Galloway,
Middle Years Program Coordinator
Red Deer College
Brent.galloway@rdc.ab.ca
[MiddleYearsGuy@Twitter.com](https://twitter.com/MiddleYearsGuy)



Who are we and why are we here?



Let's Play
Bingo

Networking: Email/Twitter/Moodle

What Are We Dealing With in the 21st Century?



Students today can't prepare BARK to calculate their problems. They depend on their SLATES which are more expensive.

What will they do when the SLATE is dropped and it breaks? They will not be able to write."

Teacher's Conference, 1703



What were the "tools" at the turn of the 20th Century?



"Students today depend on these expensive fountain pens. They can no longer write with a straight pen and nib. We parents must not allow them to wallow in such luxury to the detriment of learning how to cope in the real business world which is not so extravagant."



PTA Gazette, 1914

Not long ago in our classrooms of the 20th Century?



Ballpoint pens will be the ruin of education in our country. Students use these devices and then throw them away. The American values of thrift and frugality are being discarded. Businesses and banks will never Allow such expensive items."

Federation of Teachers, 1950



What are our targets?



TARGET



1. To examine various forms of evidence in order to determine what is meant by the concept of "21st Century Learning".
2. To define the seven essential skills of 21st Century Learning
3. To create a 21st Century Learning project for this year that will improve student learning through the integration of the seven essential 21st Century Learning Skills
4. To explore various digital learning tools that will help better engage our student learners.
5. To determine what we can "let go" as teachers in order to work smarter, not harder in the best interests of improved student learning



Brainstorm: What is 21st Century Learning Anyway?



Today's Meet:

<http://todaysmeet.com/21stcenturylearning>

Twitter: [#BR21C](#)



My Story



There's nothing to be scared of, Mrs. Miller, it's just another teaching tool!

The Galloway Vault



Key Concept:

21st Century Skills/21st Century Learning

1. **Advance Organizer: Alphabet Graffiti**
 - list as many kinds of "learning" & "skills" for 21st Century Learning
2. **Uncovering the Content**
 - work in teams of five
 - each team will be assigned to a different station in which to research (e.g. magazines, books, websites, articles)

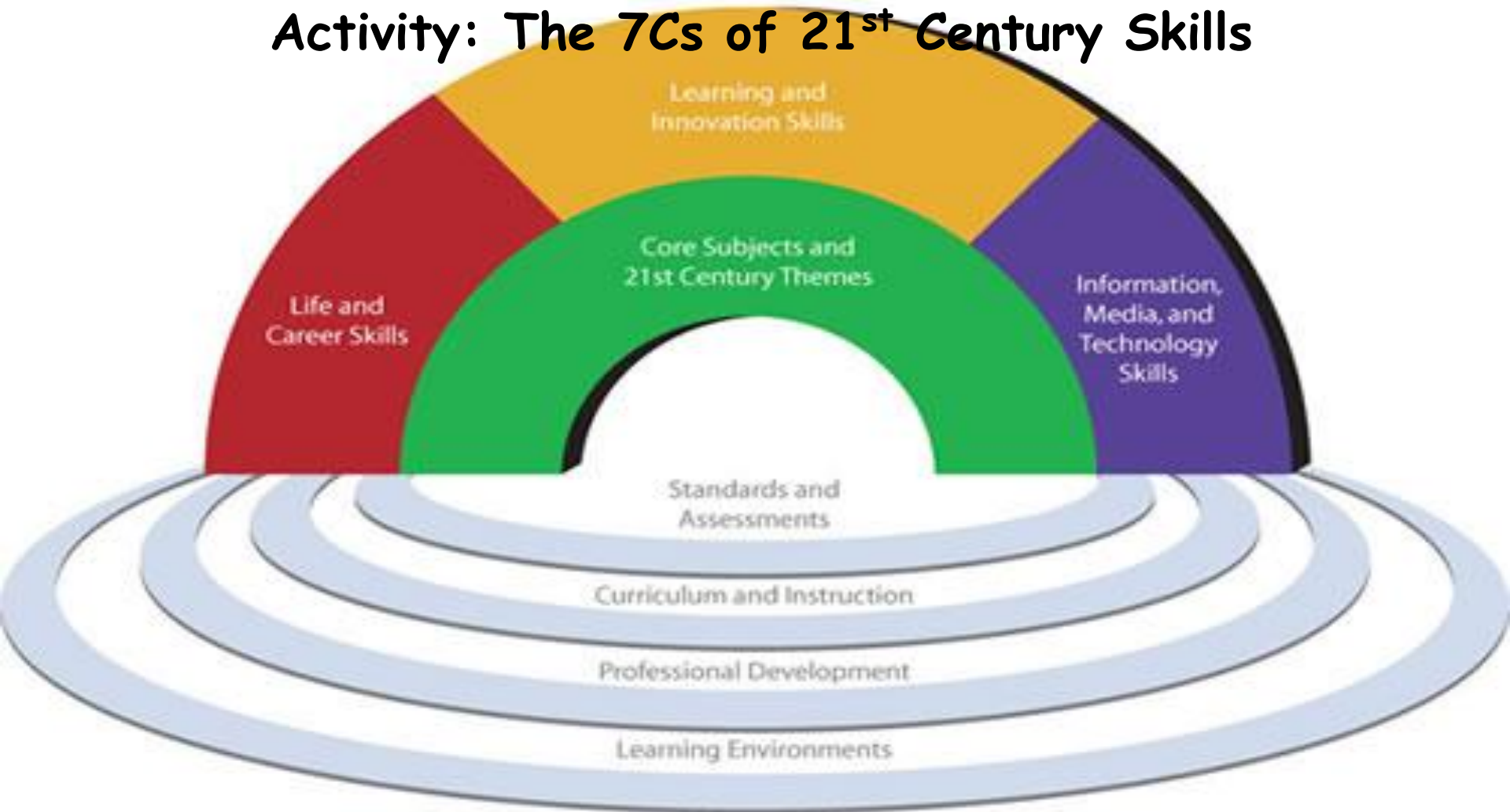
Guiding Questions:

- 1) What are the essential 21st Century skills? What skills will our grade one students need by the time they graduate?
- 2) How do we plan for and assess these skills?
- 3) How do we teach in order to develop these skills?
- 4) How do we learn in order to develop these skills?

3. **Sharing the Findings: 3 Minute Pause**
4. **Turn and Talk**
 - 1) How intentional is your school about these skills when purposefully planning for instruction and assessment?
5. **Closure: Alphabet Graffiti - a recap**

Let the "Deconstruction" begin.....

Activity: The 7Cs of 21st Century Skills



Using Digital Learning Tools:

Linguistic Representation:

<http://www.wordle.net/>

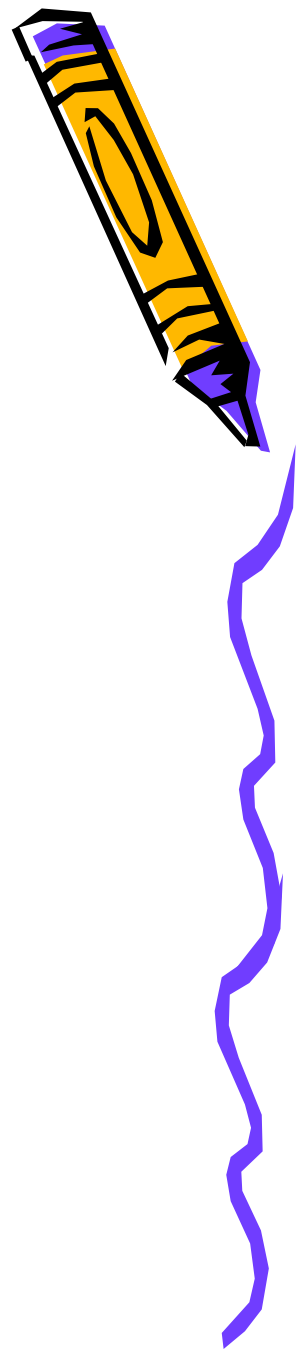
Non-linguistic Representation:

<http://www.taggalaxy.com/>

Concept Mapping: <http://bubbl.us/>



21st Century Skills



Assignment to Change the World: Pay it Forward

Is this 21st Century Learning?

21st Century Skills



Is this 21st Century Learning?





"The Times They Are A Changing"



Baby Works iPad Perfectly. Amazing Must Watch!

[mikewilsonmusic](#)

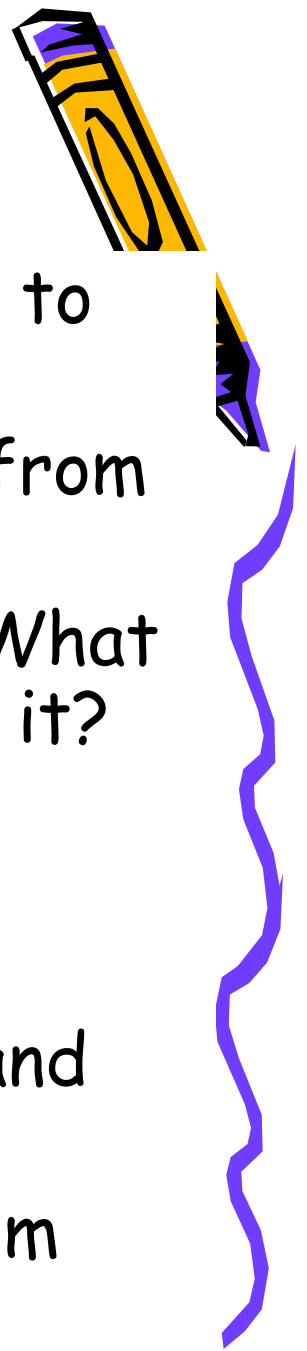
16 videos



Subscribe



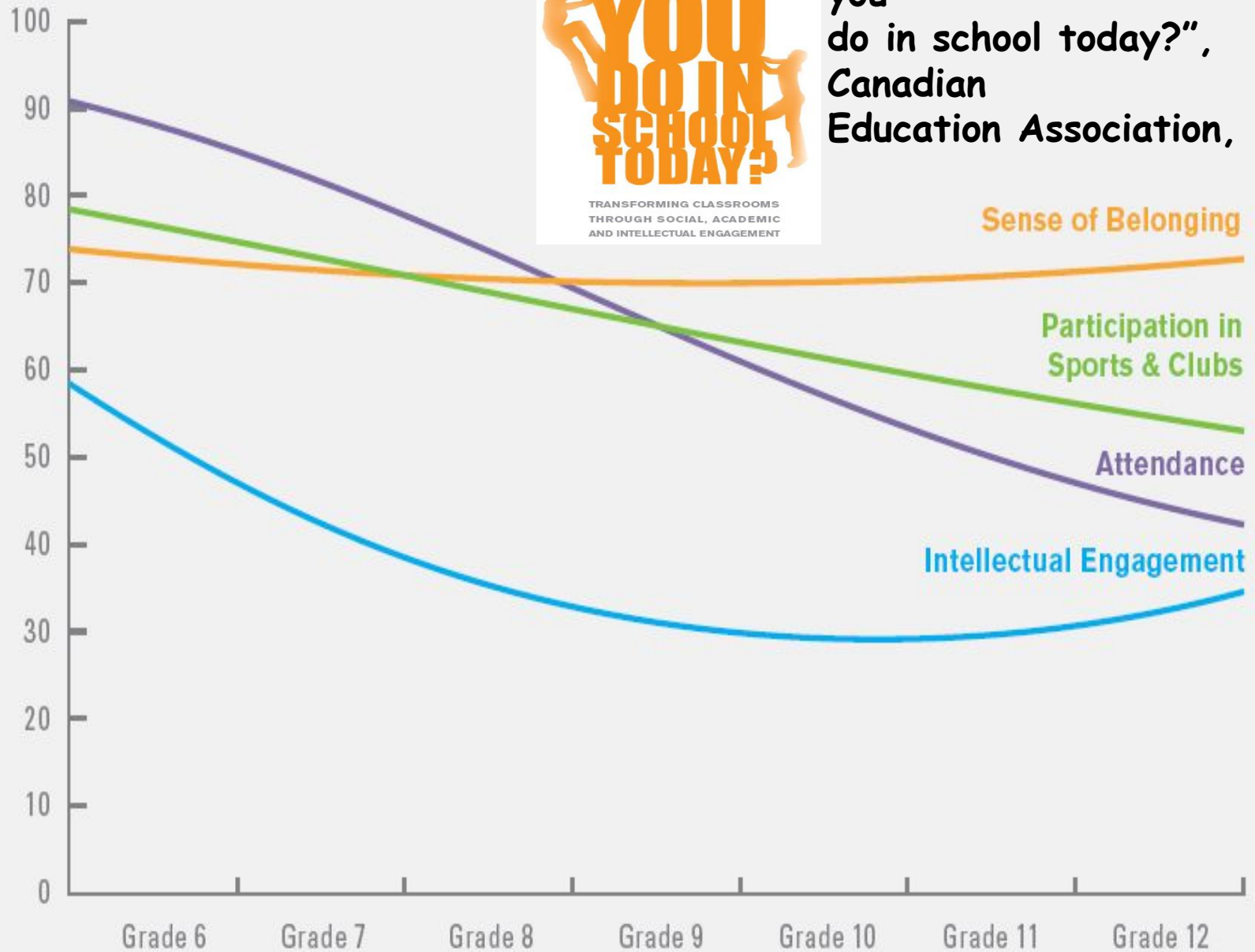
Curriculum Questions



- How will you teach Bridger when he comes to your school?
- What will children need to know 10 years from now (or 25 years from now)?
- What defines if a student is successful? What is academic success? Who should measure it? How often should it be measured?
- What do today's students say about the curriculum?
- What is the current model of curriculum and how will it need to change?
- What are the directions on curriculum from Alberta Education?



Percentage of Students



Retrieved from "What did you do in school today?", Canadian Education Association, 2009

Engaging Minds

Engaged Instructional Leaders = Engaged Teachers = Engaged Students



Learning
Pyramid



Panel of Learners

The 7Cs of 21st
Century Skills



Games



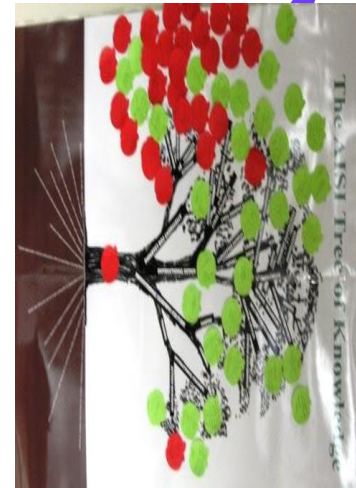
School Site Visits



twitter

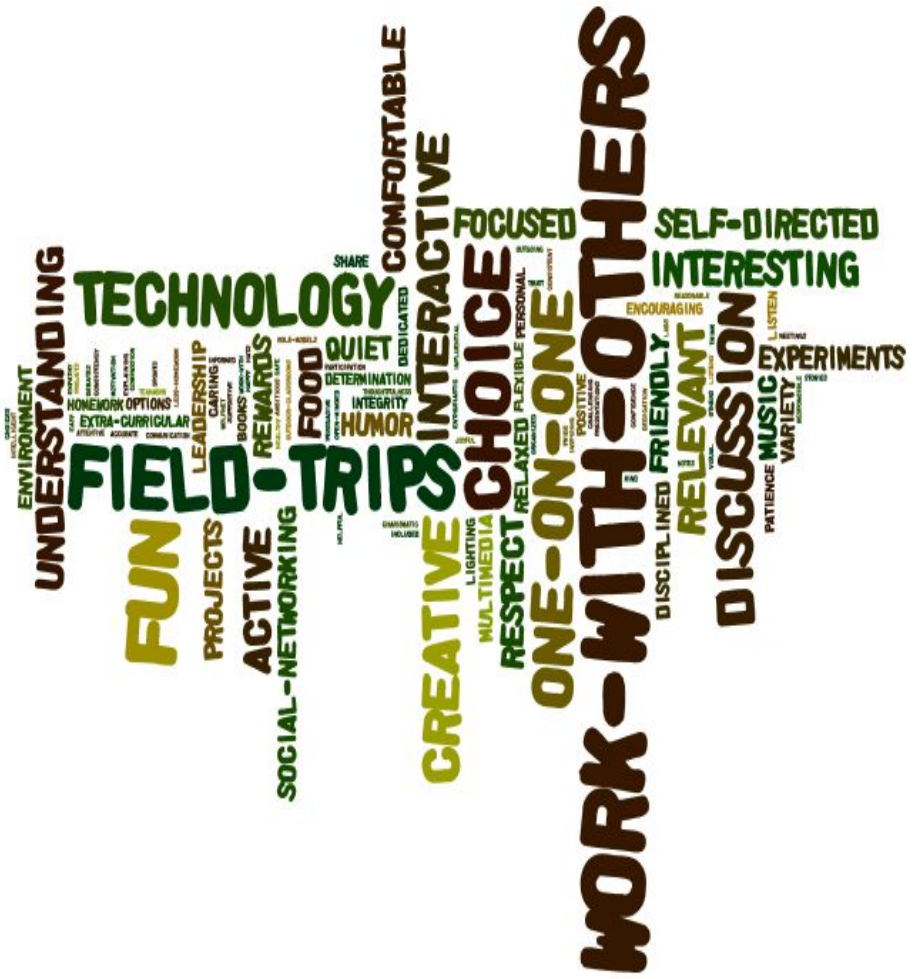
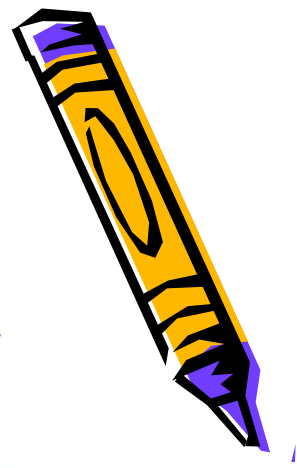


Field Trips



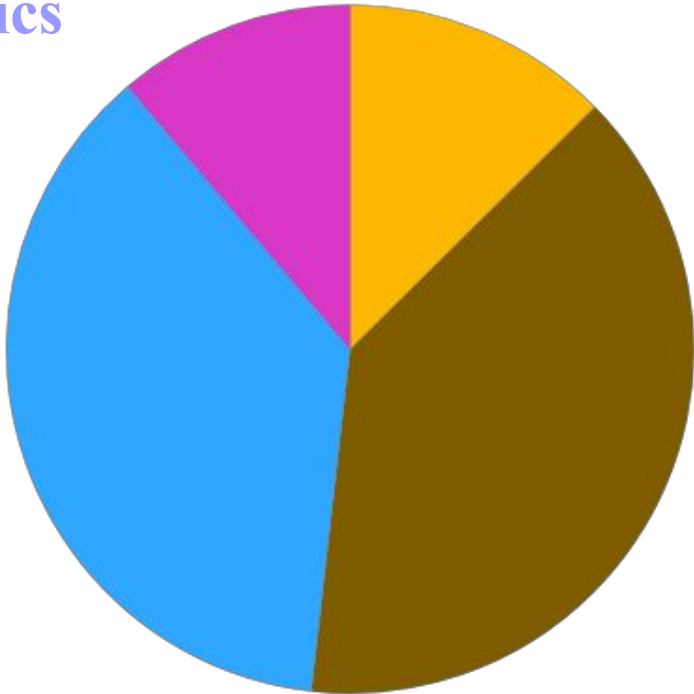


Student Engagement Surveys

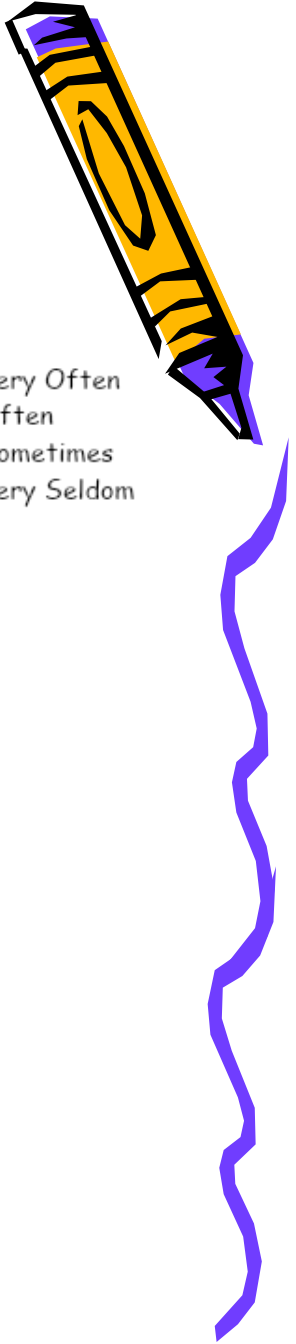


I am interested in the topics
I am learning at school

Secondary

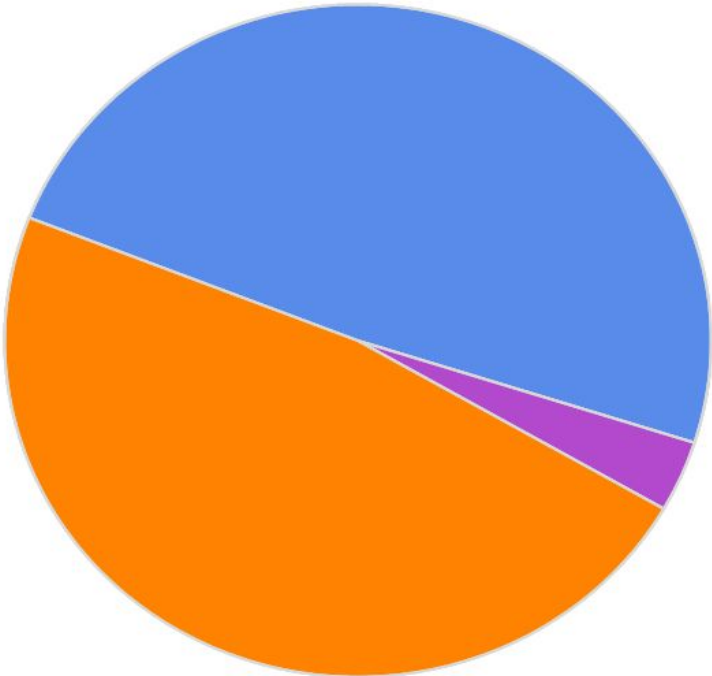


- Very Often
- Often
- Sometimes
- Very Seldom



Elementary

I am interested in the topics I am learning at school.



- Always
- Sometimes
- Never

VISION

All students are inspired to achieve success and fulfillment as engaged thinkers and ethical citizens with an entrepreneurial spirit.

MISSION

Collaborate to inspire every student to engage in high quality, inclusive learning opportunities needed to develop competencies required to contribute to an enriched society and a sustainable economy.

APS VALUES

- Respect
- Integrity
- Excellence
- Accountability

VALUES FOR TRANSFORMATION

The vision is complemented by a set of values that support system-wide consistency and accountability. We will seek to fulfill the following values in the operation and transformation of the education system.

- Opportunity** Students are exposed to rich learning experiences that enable them to discover their passions and achieve their highest potential.
- Citizenship** Students have pride in their community and culture. They have a sense of belonging and work to improve both the community and the world.
- Choice** Students have a choice of both programs and methods of learning.
- Fairness** Students have access to programs, support services, and instructional excellence needed to achieve desired outcomes.
- Diversity** Students differing needs, cultures, and abilities are respected and valued within inclusive learning environments.
- Excellence** Students, teachers, and governors achieve high standards.

LEARNER COMPETENCIES*



*draft graphic for discussion purposes

ALBERTA EDUCATION 2011-14 BUSINESS PLAN

- GOALS** **1** Success for every student **2** Transformed education through collaboration **3** Success for FNMI students

ACTION ON...FNMI Success

(3.1 Partnership Council, 3.2 MOU)

- Memorandum of Understanding (MOU) for First Nation Education: Working with the federal government and the Assembly of Treaty Chiefs to realize the common vision for First Nation students to achieve or exceed the full educational outcomes, levels and successes of all other Alberta students (SS)
- First Nation, Métis & Inuit (FNMI) Education Partnership Council: Implement a joint action plan focusing on: (SS)
 - Ensuring FNMI students are ready and able to learn
 - Engaging parents and families to support children and youth
 - Teacher education
- Northland School Division: The Northland School Division will implement strategies that focus on: (LSIM)
 - Developing English and Aboriginal language and numeracy
 - Improving student attendance
 - Working with a community based team to strengthen parental engagement with schools by improving communication and trust
- FNMI Collaborative Frameworks: Support implementation of FNMI Conceptual Collaborative Frameworks whereby FNMI parents and communities develop outcomes, strategies, and measures designed to improve FNMI student success in school (LSIM)
- Teacher Education Program: Implement the second year of the four-year Community-Based (FNMI) Teacher Education Program to increase the number of FNMI teachers in the workforce and explore the expansion of the program with urban participants (PR)

ACTION ON...Inclusion

(2.2 Implementing Action on Inclusion)

To create an inclusive education system that helps ensure success for all students, an approach to implementing inclusive education has been developed that consists of the following elements:

- Communicating High Expectations for all Students: Define high expectations for all students (LSIM)
- Understanding and Responding to Student Strengths and Needs: Describe guidelines for a continuum of supports and services to establish a consistent approach for responding to student strengths and needs (LSIM)
- Identifying Resources: Create a funding model to support the continuum of supports and services (LSIM)
- Accessing Supports and Services: Describe access to supports and services at the regional and school delivery levels (LSIM)
- Measuring Success: Develop measures and reporting mechanisms for collaboration and student success (LSIM)
- Capacity: Support building capacity of staff in the Education ministry, other ministries, school authorities and community partners (PR)
- Collaborative Practices: Develop tools and resources to support the use of collaborative practices based on wraparound principles (LSIM)

For further information on the Action Agenda go to InSite (our intranet website) and follow the links from "Our Department" to "Planning and Results".

ACTION ON...Curriculum

(1.3 Student-centred Curriculum)

- Curriculum Standards and Process Redesign: "Engaging curriculum that inspires every student every day." Provide improved supports for 21st century learners by redesigning standards and guidelines for curriculum (programs of study, balanced assessment tools and learning and teaching resources) and the associated curriculum development processes (EPSA)
- 21st Century Competencies: Review the Student Learning Outcomes in the Ministerial Order on the Goals and Standards Applicable to the Provision of Basic Education in Alberta to ensure a focus on competencies, including the attitudes, skills and knowledge, for all students in the 21st century (EPSA)
- Strategic Review of Locally Developed Courses (LDC): The review will help assess whether LDCs, in their current form and administration, meet student needs, provide options for innovation and responsiveness and align with the ministry's strategic direction for the future (EPSA)

ACTION ON...Legislation

(2.1 Act, Regulations, Policy)

- Education Act: Lead the development of a new Education Act (SS)
- Regulations: Review existing and newly required regulations to support the new Education Act (SS)
- Policy: Lead the development of transformational system-wide policy resulting from Inspiring Education, Inspiring Action, Setting the Direction, and other initiatives that align with the development of a new Education Act (SS)
- Separate School Establishment: Coordinate and facilitate a process to involve stakeholder input on separate school district establishment process (SS)

ACTION ON...Teaching and Leadership

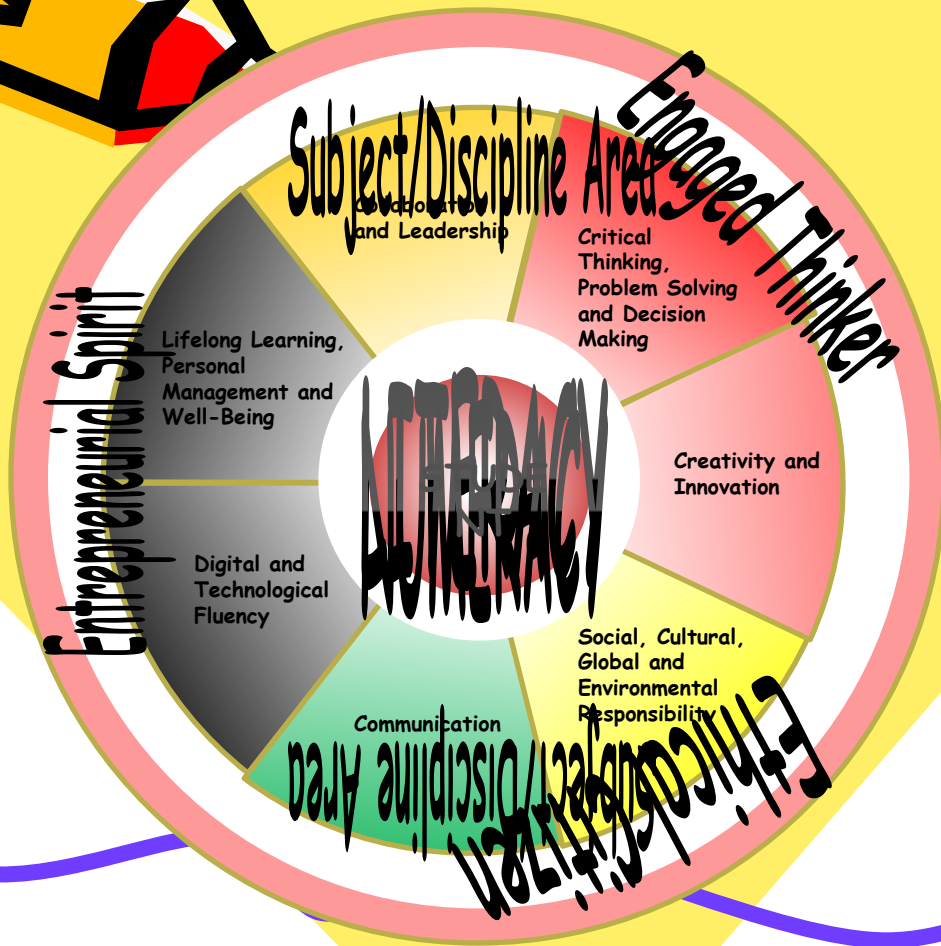
(2.3 Teacher Competency Standards, 2.4 School Leadership Framework)

- School Leadership: Implement the School Leadership Framework to strengthen school leadership capacity (PR)
- Professional Learning: Develop a framework for coordinated, comprehensive professional learning (PR)
- Teacher Induction: Support beginning teachers through a teacher induction program (PR)
- Northern Student Teacher Bursary: Implement the Northern Student Teacher Bursary program to attract teachers to northern communities (PR)
- Foreign Prepared Teachers: Implement a Bridging to Employment for Foreign Teachers program (PR)
- Career and Technology Studies (CTS) Bridging: Implement a CTS bridging program to increase the supply of CTS teachers (PR)
- Teaching Profession: Elevate and promote the teaching profession to attract the best and brightest to careers in education (PR)
- Teaching Quality Standard: Revise the Teaching Quality Standard (PR)

ACTION ON...Research

(2.6 Research Framework)

- Framework: Develop an Education Research Framework to enhance research and innovation capacity to improve teaching and learning (PR)
- Alberta Initiative for School Improvement (AIS): Transform teacher practice through innovative AIS projects (PR)



ACTION ON **Curriculum** >

Research Roundtable

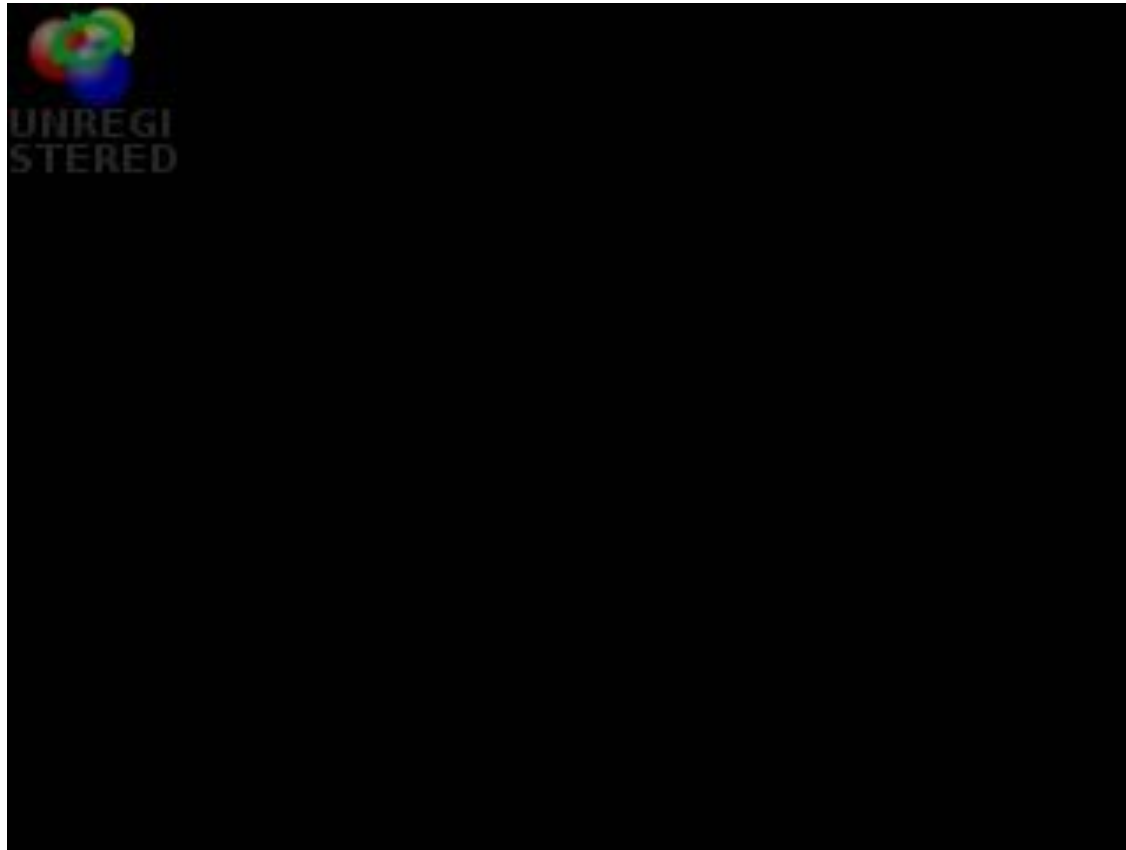
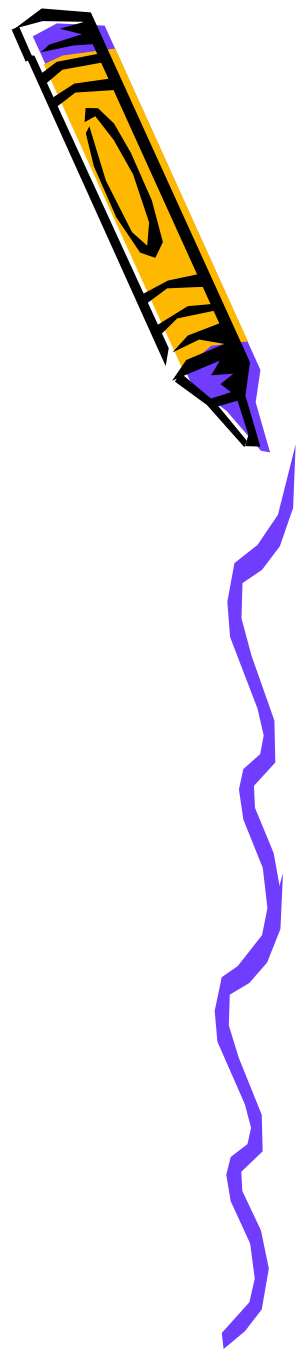
- **Ways of Knowing**
- **Student-centred/Personalized Learning**
- **Depth and Breadth**
- **Interdisciplinary Curriculum**

ACTION ON...Curriculum

(1.3 Student-centred Curriculum)

- **Curriculum Standards and Process Redesign:** "Engaging curriculum that inspires every student every day." Provide improved supports for 21st century learners by redesigning standards and guidelines for curriculum (programs of study, balanced assessment tools and learning and teaching resources) and the associated curriculum development processes (EPSA)
- **21st Century Competencies:** Review the Student Learning Outcomes in the Ministerial Order on the Goals and Standards Applicable to the Provision of Basic Education in Alberta to ensure a focus on competencies, including the attitudes, skills and knowledge, for all students in the 21st century (EPSA)
- **Strategic Review of Locally Developed Courses (LDC):** The review will help assess whether LDCs, in their current form and administration, meet student needs, provide options for innovation and responsiveness and align with the ministry's strategic direction for the future (EPSA)

Are you a 21st Century
Learner? Are you a 21st
Century Teacher?

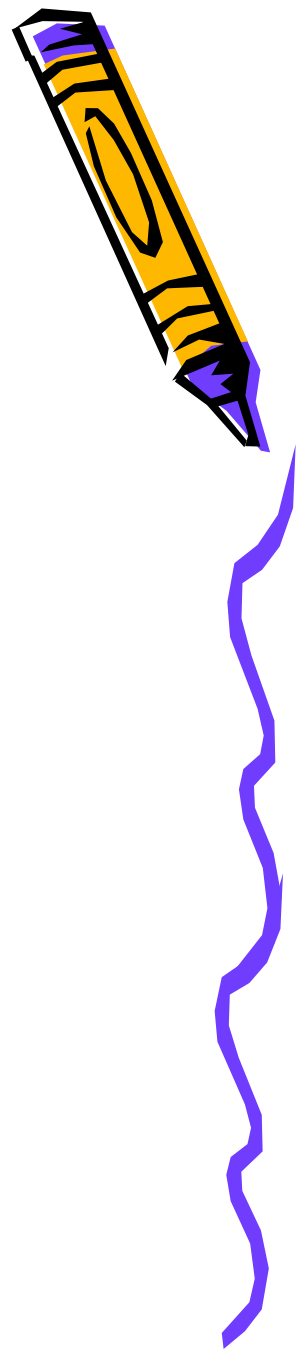


[http://www.youtube.com/watch?v= A-ZVCjfWf8](http://www.youtube.com/watch?v=A-ZVCjfWf8)

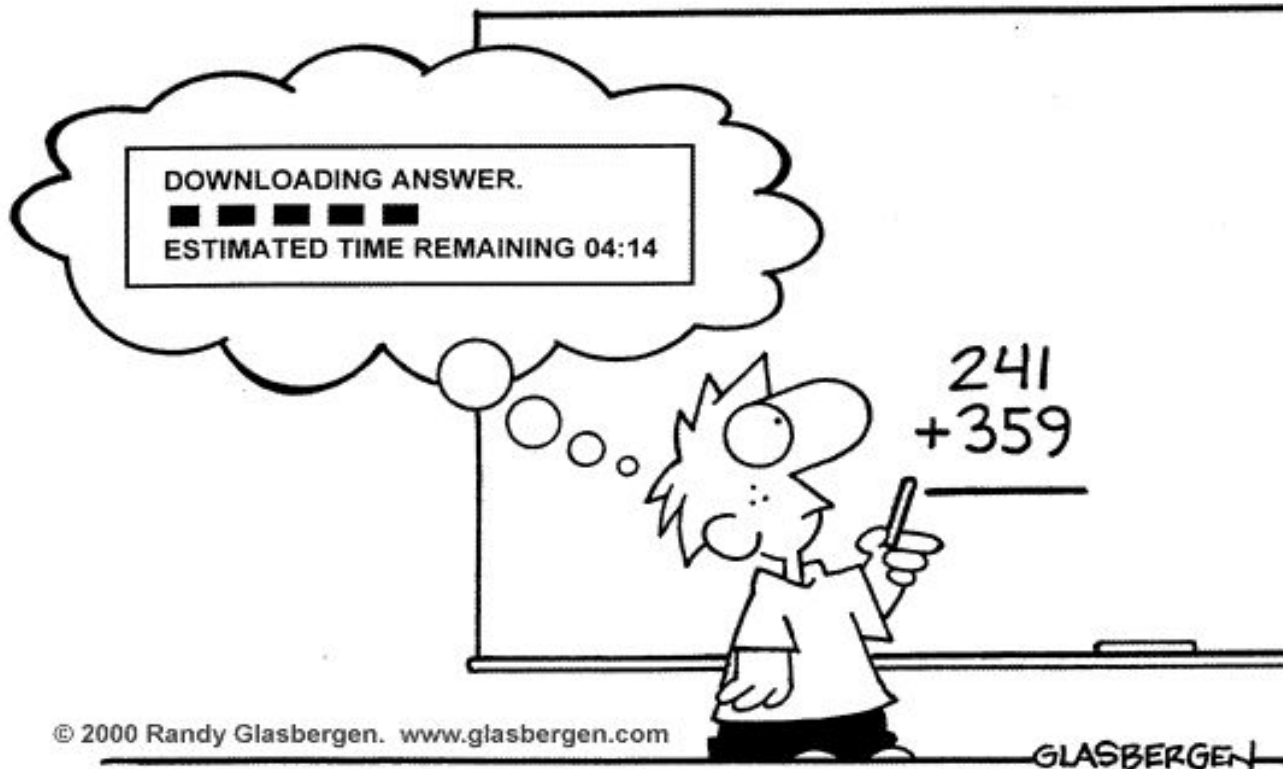
21st Century Learning means taking
the best of the 20th Century and
leaving the rest.



Activity: Start a Bonfire



Your 21st Century Learning Project



.....beginning with the end in mind

For next time...

Read - Part One: What is 21st Century Learning?
Begin thinking about a "21st Century Project"

Next Session: Wednesday, October 24th

Topic: Engaging Students with the integration of Project Based Learning, Multiple Intelligences and Web 2.0 Tools

21st Century Learning: **Wise Words**



The illiterate of the 21st century will not be those who cannot read and write, but those who cannot learn, unlearn and relearn.

...Alvin Toffler

The mobile device will be the world's primary connection tool to the internet by 2020

....Nicole Lakusta

If you're comfortable with education today, you're doing something wrong

....Dean Shareski

Our classrooms need thin walls to allow our students to learn beyond the limits of a square classroom

....Will Richardson

Teach less, learn more

....Robin Fogarty

Our digital natives are our most valuable resources

....Cheryl Lemke

Creativity peaked in the 1990s and it has been declining ever since.

We are in a creativity crisis

.....Bob Pearlman

We can only have 21st century learning if we have 21st century skills

....Doug Reeves

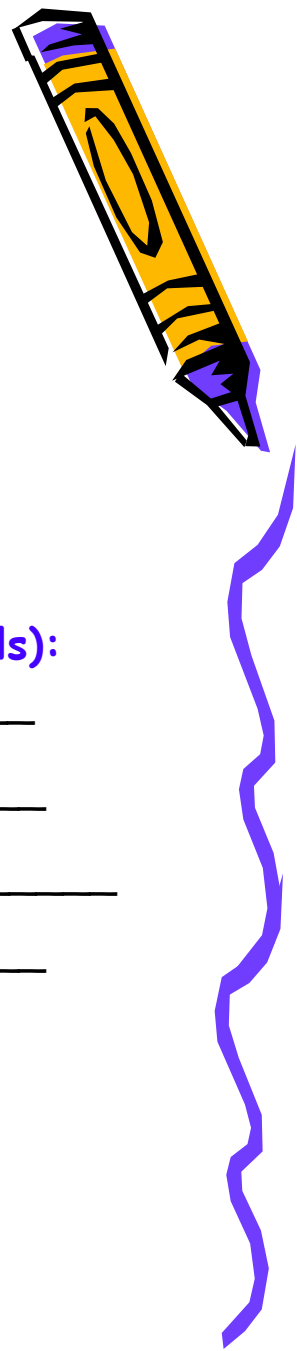
A one size fits all factory model and one way approach to learning does not work for today's students.

....Trilling and Fader, 21st Century Skills

As teachers we are to never to stop learning, for the moment we do, we also stop being effective teachers

....Robyn Jackson

Session Exit Card



Name_____ School_____

3 Things I Learned from this session about 21st Century Learning:

1. _____
2. _____
3. _____

2 Things I wish to do differently in the future regarding this topic (Goals):

I will start _____

I will stop _____

1 Question I have about this topic:

1. _____

