



PARTNERSHIP FOR
21ST CENTURY SKILLS

Preparing Students for the 21st Century

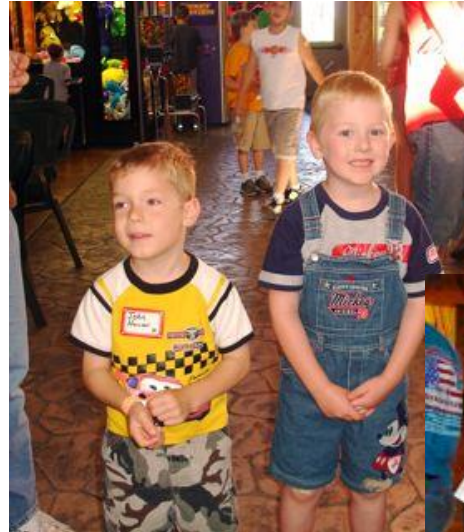
KTEC Enrollment Meeting

January 09




KENOSHA SCHOOL OF TECHNOLOGY
ENHANCED CURRICULUM

Preschool
through eighth
grade charter
school that
opened in
September
2007.



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The mission of Kenosha School of Technology Enhanced Curriculum, a caring adaptive Preschool-8 charter school that engages all students in an innovative learning environment, is to prepare students for success in a global society through academic excellence by the use of the 21st Century skills and technology integration.

Overview

“This is a story about the big public conversation the nation is not having about education... whether an entire generation of kids will fail to make the grade in the global economy because they can’t think their way through abstract problems, work in teams, distinguish good information from bad, or speak a language other than English.”

How to Build a Student for the 21st Century, TIME Magazine, December 18, 2006



Overview

- Why are 21st Century Skills so important?
- What is the framework for 21st Century Skills?



Why are 21st Century Skills so Important?

5 Reasons



Why 21st Century Skills?

1. Our students will be competing in the new global economy.

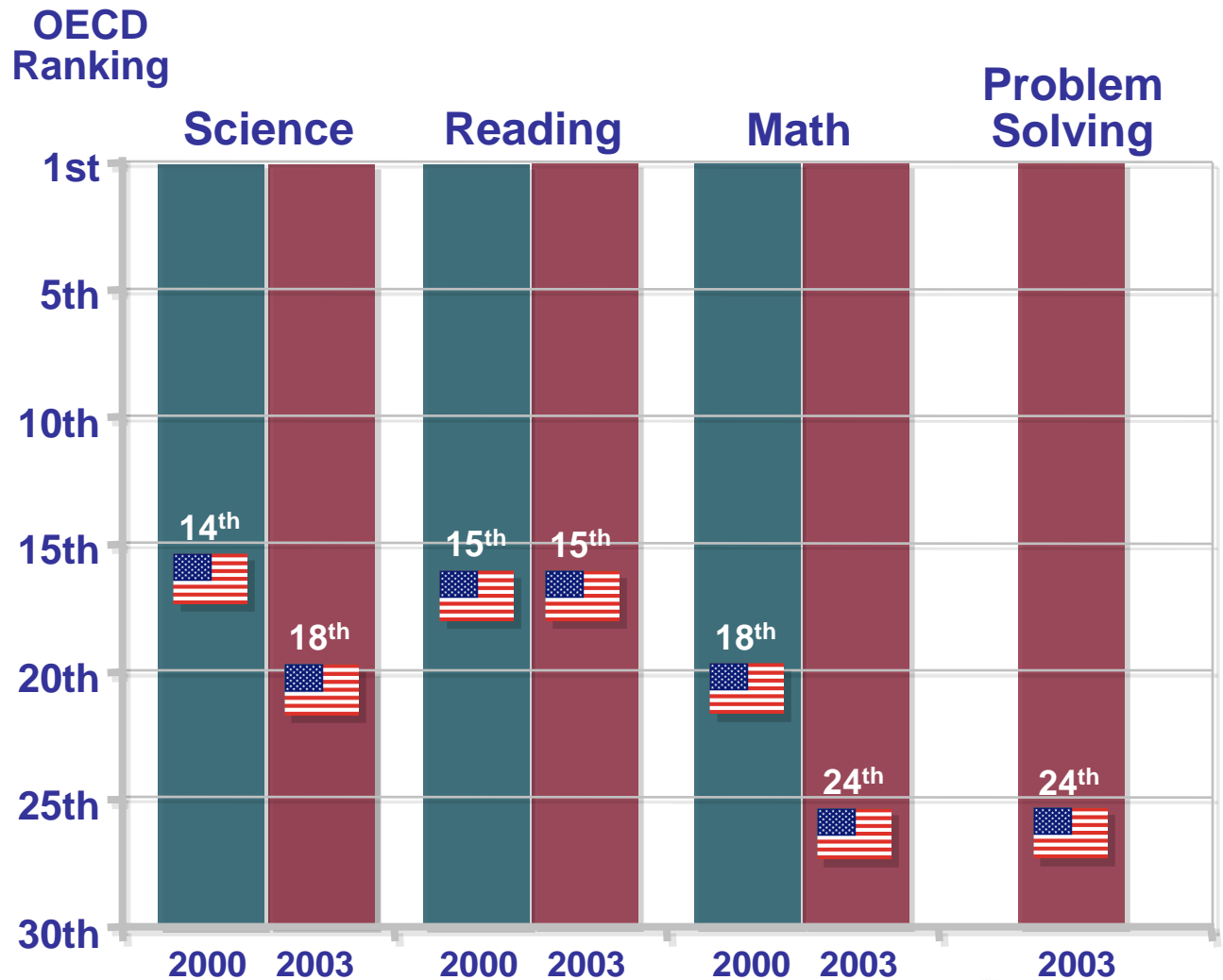


Why 21st Century Skills?

2. The U.S. is falling behind.

Why 21st Century Skills?

Ranking of G8 countries:
10th grade math & problem solving



Source: PISA, 2000, 2003

Courtesy of Cisco Systems



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Why 21st Century Skills?

3. The nature of work is changing.

Why 21st Century Skills?

How many of your Parents & Grandparents had only one or two jobs in their lifetimes?



Why 21st Century Skills?

How many jobs will a young person have today between age 18-38?

...10.2 jobs

SOURCE: Number of Jobs Held, Labor Market Activity, and Earnings Growth Among Younger Baby Boomers: Recent Results From a Longitudinal Survey Summary, US Dept. of Labor, 2004



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Why 21st Century Skills?

	<u>20th Century</u>	<u>21st Century</u>
Number of Jobs:	1 – 2 Jobs	10 – 15 Jobs
Job Requirement:	Mastery of One Field	Critical Thinking Across Disciplines
Teaching Model:	Subject Matter Mastery	Integration of 21 st Century Skills into Subject Matter Mastery
Assessment Model:	Subject Matter Mastery	Integration of 21 st Century Skills into Subject Matter Mastery



Why 21st Century Skills?

4. Requirements of the workforce are changing.

Why 21st Century Skills?

Workforce Survey:

“Are They Really Ready to Work?”

Released October 2, 2006, by The Conference Board, Corporate Voices for Working Families, Partnership for 21st Century Skills, and the Society for Human Resource Management groups.

Why 21st Century Skills?

- What skills are most important for job success when hiring a High School graduate?

Work Ethic	80%
Collaboration	75%
Good Communication	70%
Social Responsibility	63%
Critical Thinking & Problem Solving	58%

Why 21st Century Skills?

- Of the High School Students that you have recently hired, what were their deficiencies?

Written Communication	81%
Leadership	73%
Work Ethic	70%
Critical Thinking & Problem Solving	70%
Self-Direction	58%

Why 21st Century Skills?

- What skills and content areas will be growing in importance in the next five years?

Critical Thinking	78%
I.T.	77%
Health & Wellness	76%
Collaboration	74%
Innovation	74%
Personal Financial Responsibility	72%

Why 21st Century Skills?

5. We need our students to become effective 21st Century citizens.

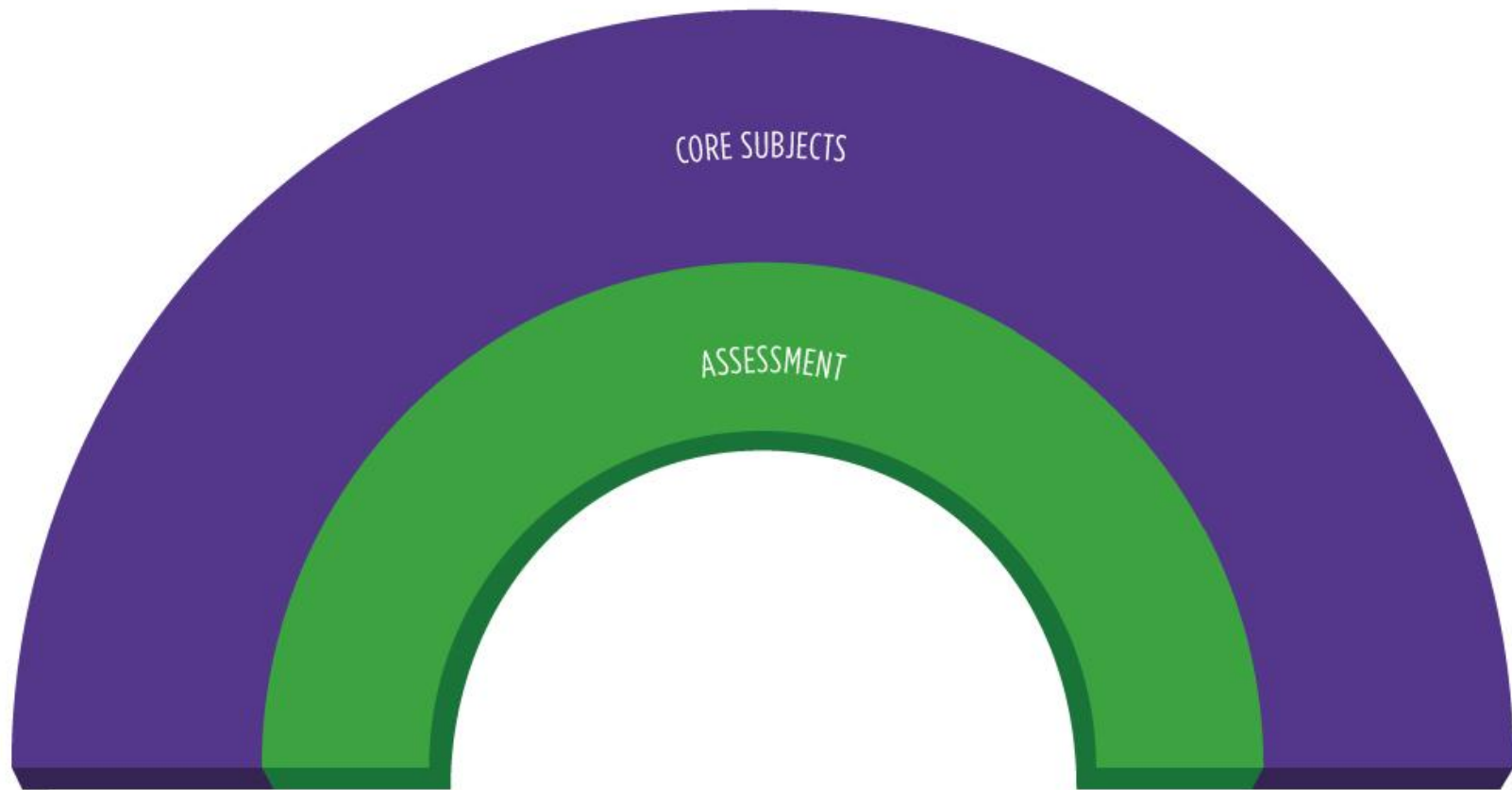




What is the Framework for 21st Century Skills?

21st Century Skills Framework

20th Century Education Model

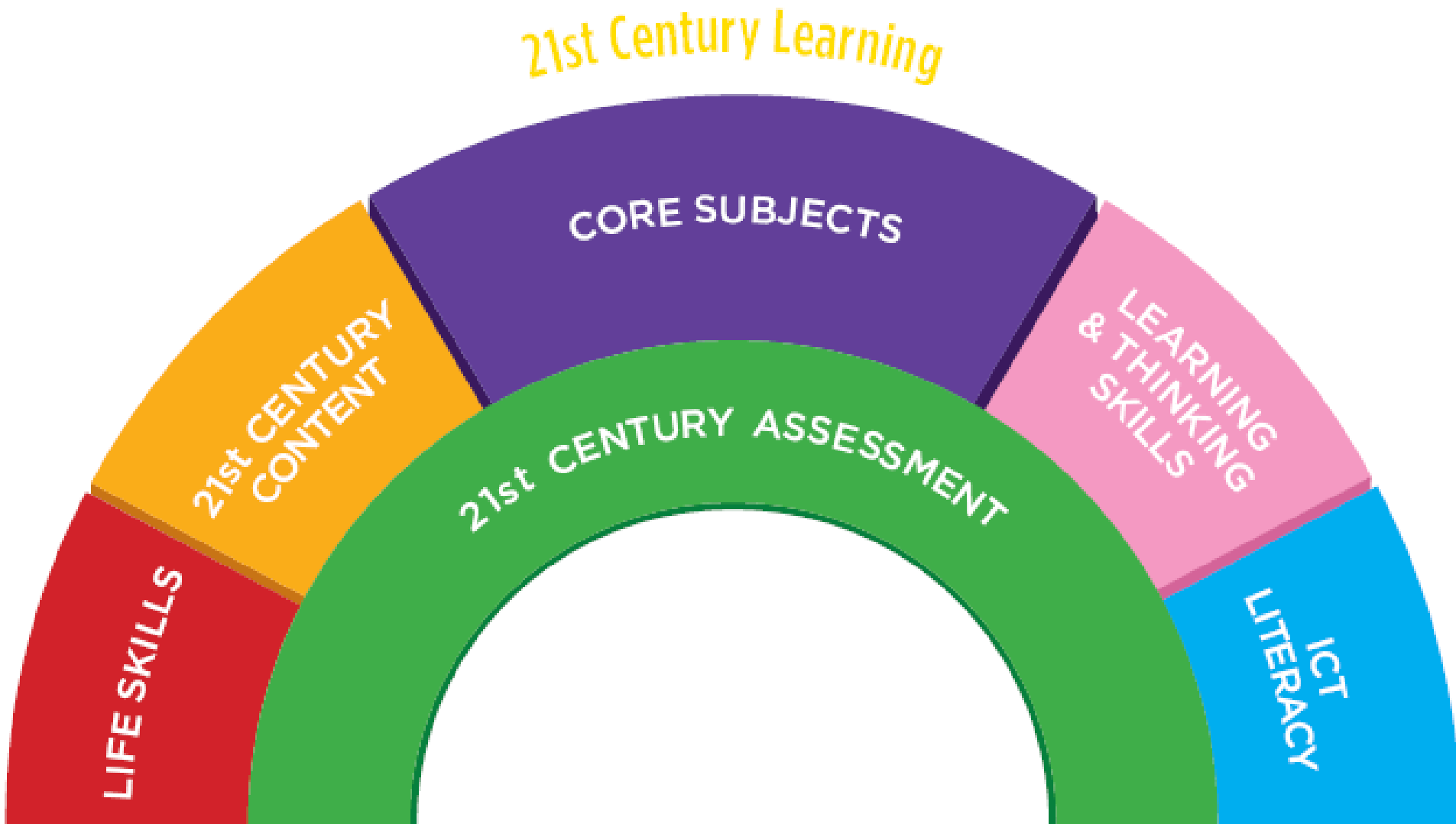


21st Century Skills Framework

Core Subjects

- English
- Reading or Language Arts
- Mathematics
- Science
- Foreign Languages
- Civics
- Government
- Economics
- Arts
- History
- Geography

21st Century Skills Framework



21st Century Skills Framework

Thinking and Learning Skills

- Critical Thinking & Problem Solving Skills
- Creativity & Innovation Skills
- Communication & Information Skills
- Collaboration Skills
- Contextual Learning
- Information and Media Literacy

ICT Literacy

Information and communications technology (ICT) literacy is the ability to use technology to accomplish thinking and learning skills:

- Critical Thinking & Problem Solving Skills
- Creativity & Innovation Skills
- Communication & Information Skills
- Collaboration Skills
- Contextual Learning
- Information and Media Literacy

21st Century Skills Framework

Life Skills

- Leadership
- Ethics
- Accountability
- Adaptability
- Personal Productivity
- Personal Responsibility
- People Skills
- Self Direction
- Social Responsibility





Character Education

"Success is peace of mind which is a direct result of self-satisfaction in knowing you made the effort to become the best of which you are capable."

»Coach John Wooden

Pyramid of Success

- Emphasis was not on winning
- Promoted doing your own personal best at all times
- Redefined his players' idea of success
- Exemplified the Pyramid of Success in his life and coaching career

Pyramid of Success

- Coach Wooden turned his Pyramid into a children's book, *Inch and Miles: The Journey to Success*
- Each trait is associated with an animal and poem
- See examples on our lockers on the main level of our school. These were painted by YEA!

21st Century Skills Framework

21st Century Content

- Global Awareness
- Financial, Economic, Business and Entrepreneurship Literacy
- Civic Literacy
- Health & Wellness Awareness

21st Century Skills Framework

- Core Subjects
- Thinking and Learning Skills
- ICT Literacy
- 21st Century Content
- Life Skills

These are the new “design specs”
for 21st Century education.

Literacy Curriculum

- Breakthrough to Literacy –Grades K-2
- Focus on Information Literacy and Technical Reading and Writing



Math Curriculum

- All students complete Algebra by the completion of eighth grade.
- Real world applications
- Accelerated Math



Science Curriculum

- Hands-on curriculum that promotes higher order thinking about scientific ideas.
- Project Lead the Way in grades six through eight.



Project Lead the Way

Middle School Program: Gateway To Technology

- ☐ Design and Modeling (9 wks)
- ☐ The Magic of Electrons (9 wks)
- ☐ The Science of Technology (9 wks)
- ☐ Automation and Robotics (9 wks)
- ☐ Environmental Engineering (9 wks)
- ☐ Flight and Space (9 wks) NASA





KENOSHA SCHOOL OF TECHNOLOGY
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- All students have:
 - Music
 - Physical Education
 - Art
 - Spanish



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Parent Support and Involvement

Recent research indicates that parental involvement in student's learning strongly correlates with increase achievement.

~Vanderbilt Review 2006



Our parent, teacher, and student organization supports our school in many ways including fundraising, volunteer coordination, and teacher appreciation activities



Conclusion

“There is remarkable consensus among educators and business and policy leaders on one key conclusion: we need to bring what we teach and how we teach into the 21st Century.”

TIME Magazine,
December 18, 2006

