

In Kansas



Expected Highest Growth Career Fields

- Education
- Management
- Health Care
- Marketing & Sales
- Community Services

Taken from ACTs "The Future Workforce of Kansas" (2008)

<http://www.ksde.org/LinkClick.aspx?fileticket=et9bQ2yeRQ8%3d&tabid=2880&mid=7323>

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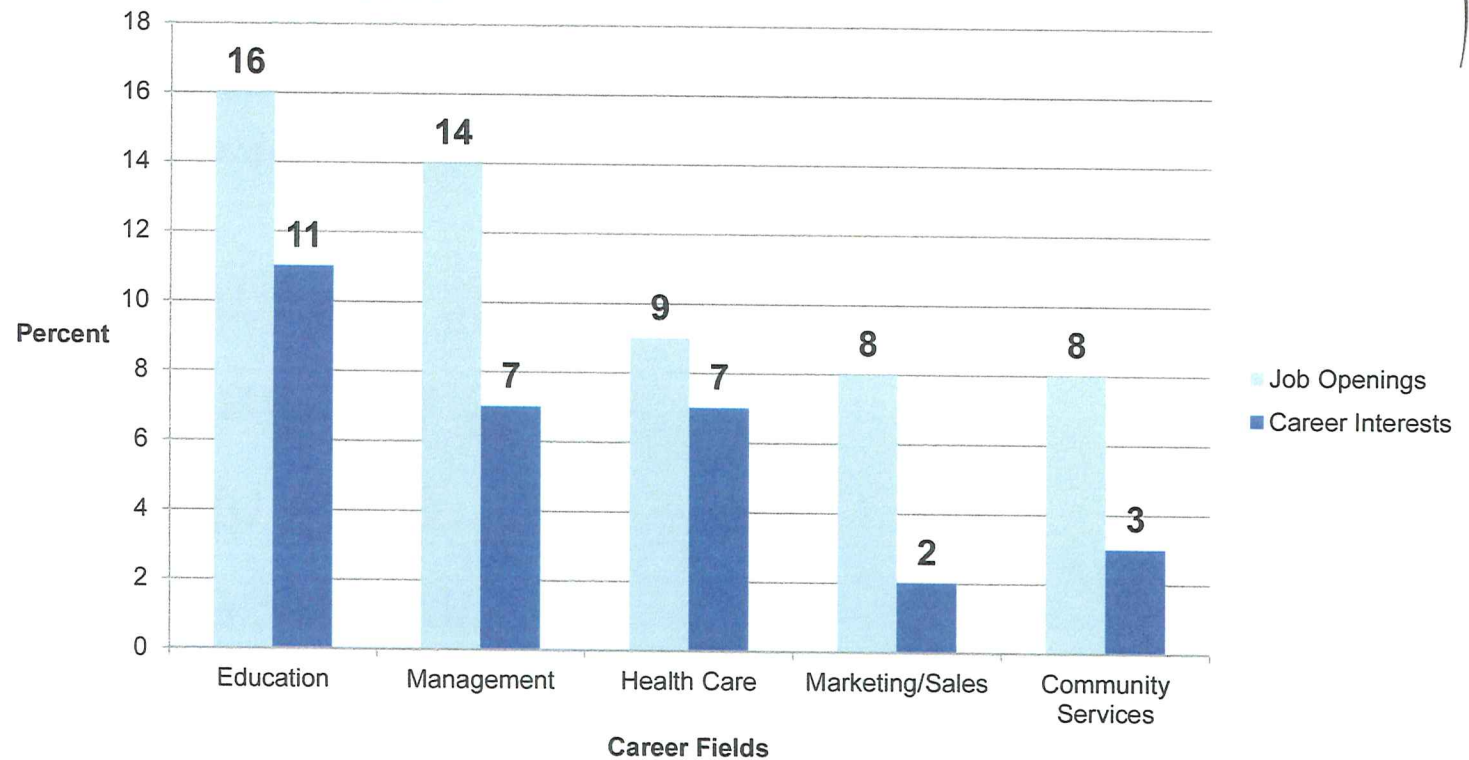
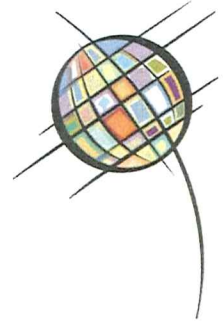


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SIG-ACT000051

Projected Annual Job Openings & KS High School Students' Interests in High Growth Kansas Career Fields^{1,2}

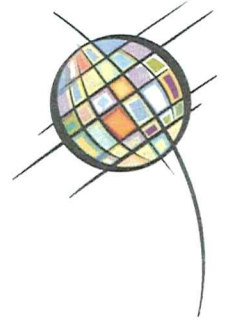


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- 1 *State projections 2004-2014 provided by Kansas Department of Labor, Labor Market Information Services.*
- 2 *Based on 2008 ACT-tested Kansas students (n = 14,975) with valid career information.*

In Kansas



What We Know:

- There is some interest among Kansas high school students in pursuing these high-growth career fields, but not enough to meet the demand.
- Of Kansas students expressing interest in these high-growth career fields, more than 2/3 are ready for 1st-year college English courses, while less than 2/3 are prepared for college-level social science courses.
- Of Kansas students expressing interest in most of these high-growth career fields, less than 1/2 are ready for college-level math or science courses.

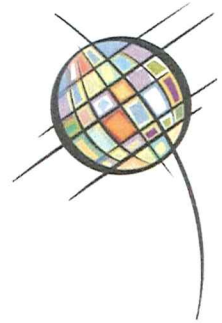
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Kansas Data Websites



- <http://www.achieve.org/kansas>



- <http://www.postsecconnect.org/kansas>

**POSTSECONDARY
CONNECTION**

Making the link between high school preparation and college success

- <http://www.biztools4schools.org/kansas>

**BUSINESS
TOOLS**
FOR BETTER SCHOOLS

promoting more
effective business
involvement
in america's
public schools.



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***Additional generic CTE
websites are located in the
handout packet***

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Career & Technical Education TODAY

Vocational Education “Then”	CTE “Now”
For <i>Some</i> Students	For <i>All</i> Students
For a Few <i>Jobs</i>	For All <i>Careers</i>
6 to 7 “Program Areas”	16 Clusters – 81 Pathways
In Lieu of Academics	Aligns and Supports Academics
High School Focused	High School and College Partnerships

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SIG-ACT00005:

So where do Career Clusters fit in? What are they?

- Career Clusters are groupings of occupations and industries
- These groupings are used as an organizing tool for:
 - Curriculum Design
 - Instructional + Guidance Model
 - Seamless Transition

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Kansas Career Fields and Clusters Model

Cluster-level

Pathway-level

Agriculture, Food, and Natural Resources

- Animal Systems
- Agribusiness Systems
- Biotechnology in Agriculture
- Environmental Service Systems
- Food Products and Processing Systems
- Natural Resources Systems
- Plant Systems
- Power, Structural, and Technical Systems

Arts, A/V Technology, and Communications

- Audio/Video Techniques
- Journalism and Broadcasting
- Performing Arts
- Printing Techniques
- Telecommunications Techniques
- Visual Arts

Information Technology

- Information Support and Services
- Web and Digital Communications
- Network Systems
- Programming and Software Development

Business Management and Administration

- Administrative Services
- Business Information Management
- Human Resources Management
- General Management
- Operations Management

Finance

- Banking Services
- Business Finance
- Securities and Investments
- Insurance
- Accounting

Hospitality and Tourism

- Lodging
- Recreation, Amusements, and Attractions
- Restaurants and Food and Beverage Services
- Travel and Tourism

Marketing

- Merchandising
- Marketing Management
- Marketing Communications
- Marketing Research
- Professional Selling

Environmental and Agricultural Systems

Arts, Communication, and Information

Business Management and Administration

Foundation Knowledge and Skills

Academic and Technical Skills

- Employability
- Ethics
- Systems
- Teamwork
- Career Development
- Problem Solving
- Critical Thinking
- Information Technology Application
- Legal Responsibilities
- Communication
- Safety, Health, and Environment

Industrial, Manufacturing, and Engineering Systems

Architecture and Construction

- Construction
- Design and Pre-construction
- Maintenance and Operations

Manufacturing

- Production
- Manufacturing Production Process Development
- Maintenance, Installation, and Repair
- Quality Assurance
- Logistics and Inventory Control
- Health, Safety, and Environmental Assurance

Transportation, Distribution, and Logistics

- Facility and Mobile Equipment Maintenance
- Health, Safety, and Environmental Management
- Logistics Planning and Management Services
- Sales and Services
- Transportation Operations
- Transportation/Systems Infrastructure Planning, Management, and Regulation
- Warehousing and Distribution Center Operations

Science, Technology, Engineering, and Mathematics

- Engineering and Technology
- Science and Math (Investigative, Informational, and Educational)

Human Resources and Services

Health Science

Education and Training

- Administration and Administrative Support
- Professional Support Services
- Teaching/Training

Government and Public Administration

- Revenue and Taxation
- Foreign Service
- Governance
- National Security
- Planning
- Public Management and Administration
- Regulation

Human Services

- Consumer Services
- Counseling and Mental Health Services
- Early Childhood Development and Services
- Family and Community Services
- Personal Care Services

Law, Public Safety, and Security

- Correction Services
- Emergency and Fire Management Services
- Law Enforcement Services
- Legal Services
- Security and Protective Services

Health Science

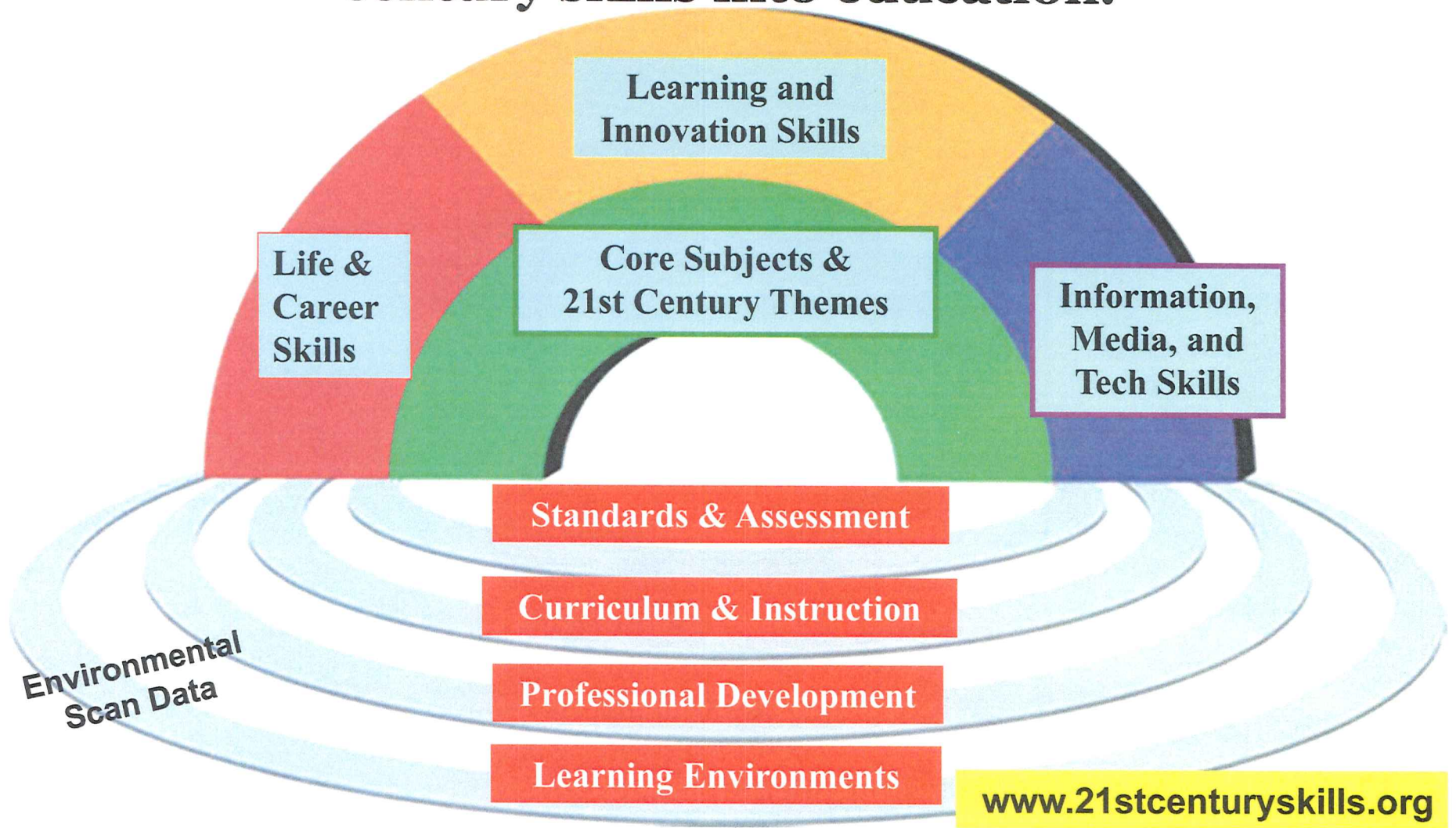
- Biotechnology Research and Development
- Diagnostic Services
- Supportive Services
- Health Informatics
- Therapeutic Services

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<http://www.ksde.org/Default.aspx?tabid=3178>

Partnership for 21st Century Skills

The leading advocacy organization infusing 21st century skills into education.



Tool
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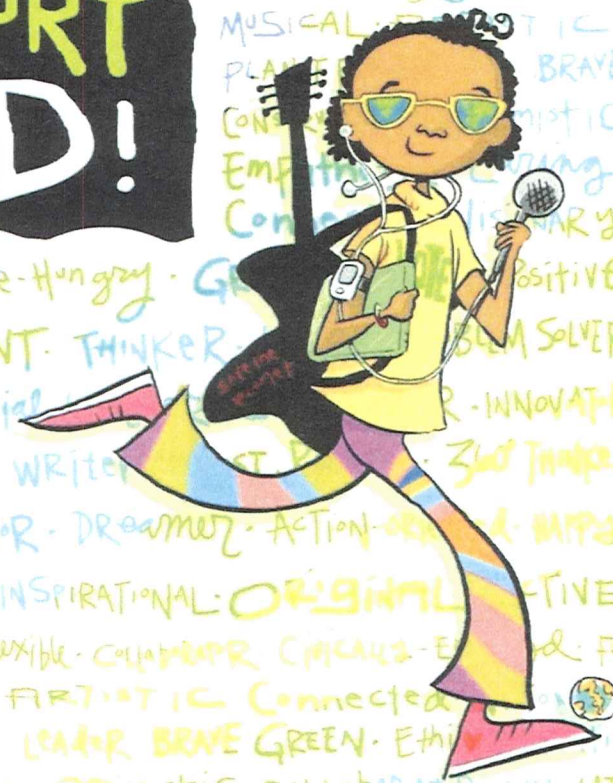
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What Will They Look Like?

THE 21ST CENTURY KID!

global citizen creative
active mission driven
civically engaged fun
musical artistic
planner leader brave
constrative optimistic
empathetic caring
connected visionary active mission driven

Knowledge-Hungry · Global
INDEPENDENT · THINKER
experiential
INVENTOR · WRITER
INVESTIGATOR · DREAMER · ACTION-ORIENTED · MAPS
INSPIRED · INSPIRATIONAL · ORIGINAL · POSITIVE
FRIENDLY · FLEXIBLE · COLLABORATOR · CIVICALLY-ENGAGED · FUN
MUSICAL · ARTISTIC · CONNECTED
PLANNER · LEADER · BRAVE · GREEN · EMPATHETIC
CONSTRUCTIVE · OPTIMISTIC · COLLABORATOR · INNOVATOR
EMPATHETIC · CARING · GLOBAL CITIZEN · CREATIVE
CONNECTED · VISIONARY · ACTIVE · MISSION DRIVEN



Peter H. Reynolds 2008

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21st Century CONTINUUM OF PRACTICES

Where are you on the continuum?

Moving from.....Moving Towards

Teacher-centered instruction.....Student-centered learning
Single sense stimulation.....Multi-sensory stimulation
Single path progression..... Multi-path progression
Single media..... Multimedia
Isolated work.....Collaborative work
Information delivery.....Information exchange
Passive, receptive learning.....Active, inquiry-based learning
Factual, knowledge-based.....Critical thinking, informed
decision making
Reactive response.....Proactive, planned
Isolated, artificial context..... Authentic, real-world context
Passive learner.....Self-directed learner
One size fits all.....Differentiation

Tool

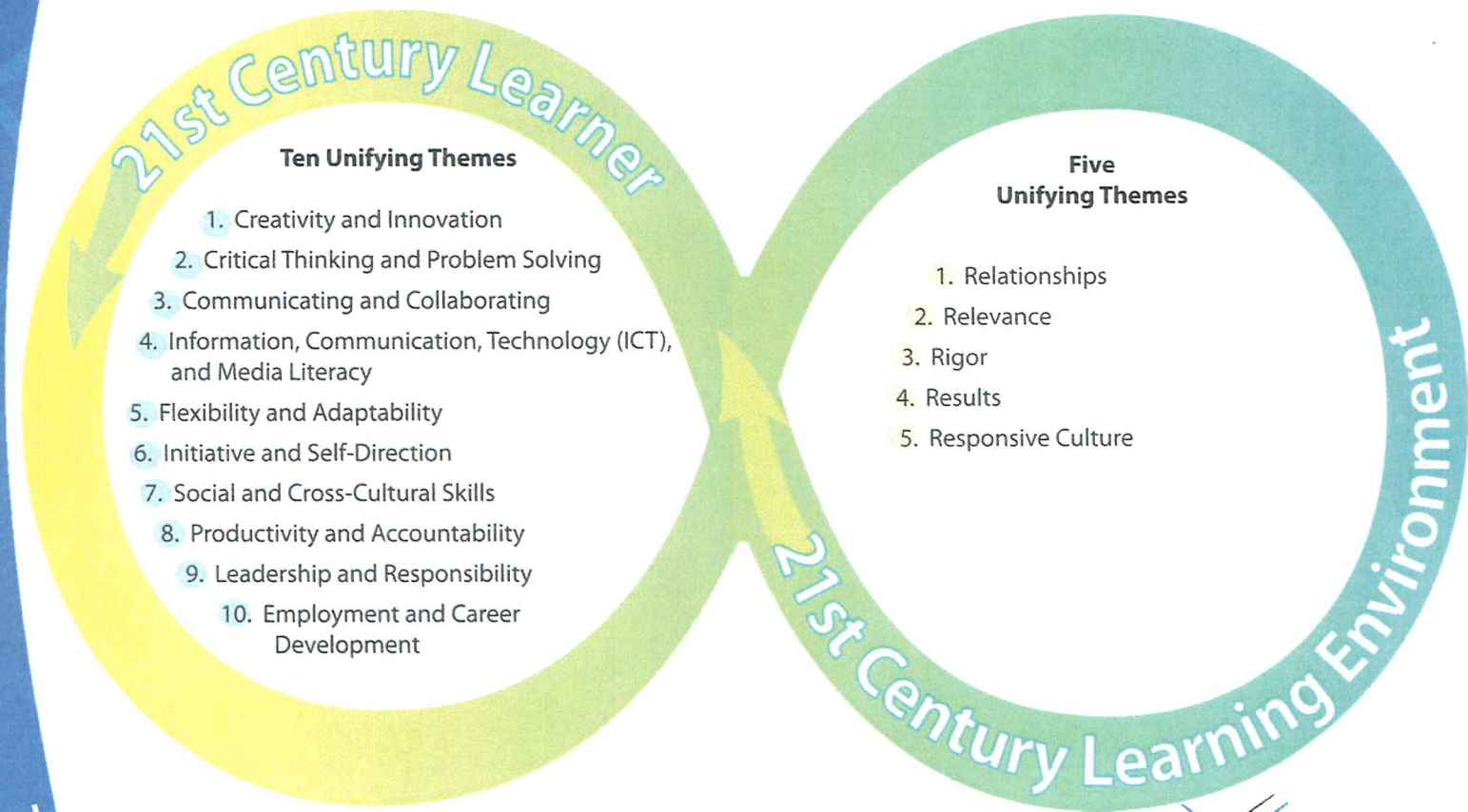
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KSDE 21st Century Learning Profiles of the...



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