Education for a Global Marketplace: Leading the Way

Conversations on Career Pathways

with students, parents, and staff

Valley Education for Employment System

www.valees.org

How do I figure out what career and education is best for me?

degree to earn a good wage?

Connecting from disconnected... Moving from Head, Heart, and Hands

- Career Interests
- Aptitudes and abilities
- Programs of Study
- Course Sequences
- Career Opportunities
- Pursuit of Passion

and confused out Career Pathways

Preparing for multiple Career Pathways

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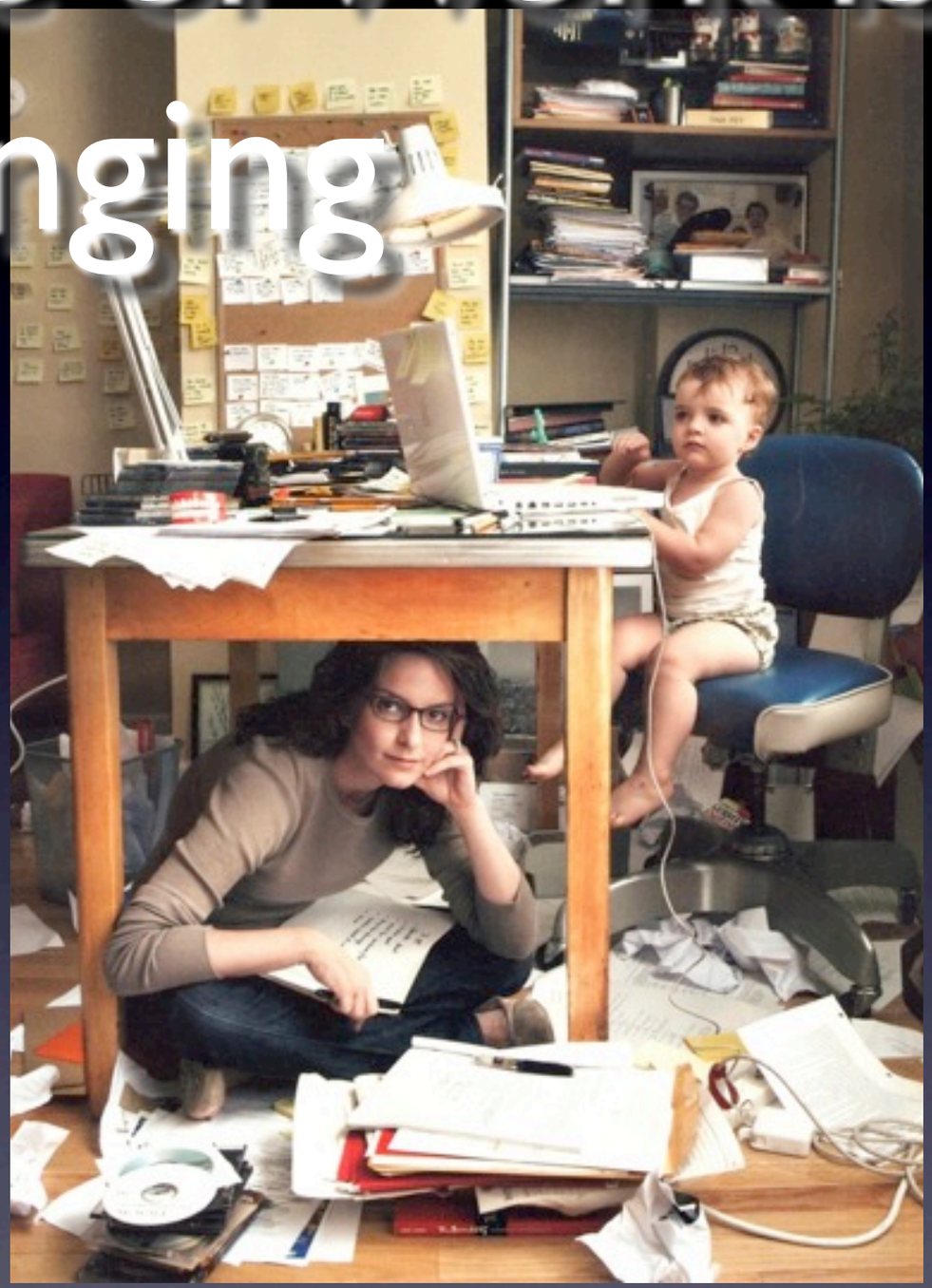
Who am I?

Where do I want to go?

How might I get there?

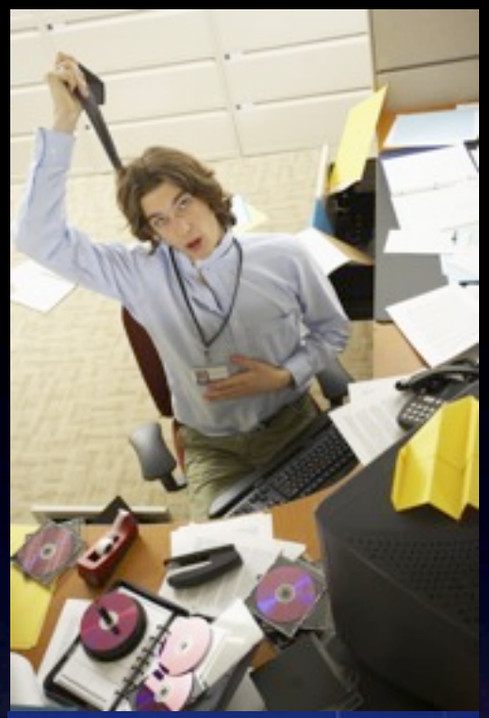
The Nature of Work is Changing



Changes

The Nature of Students in Changing

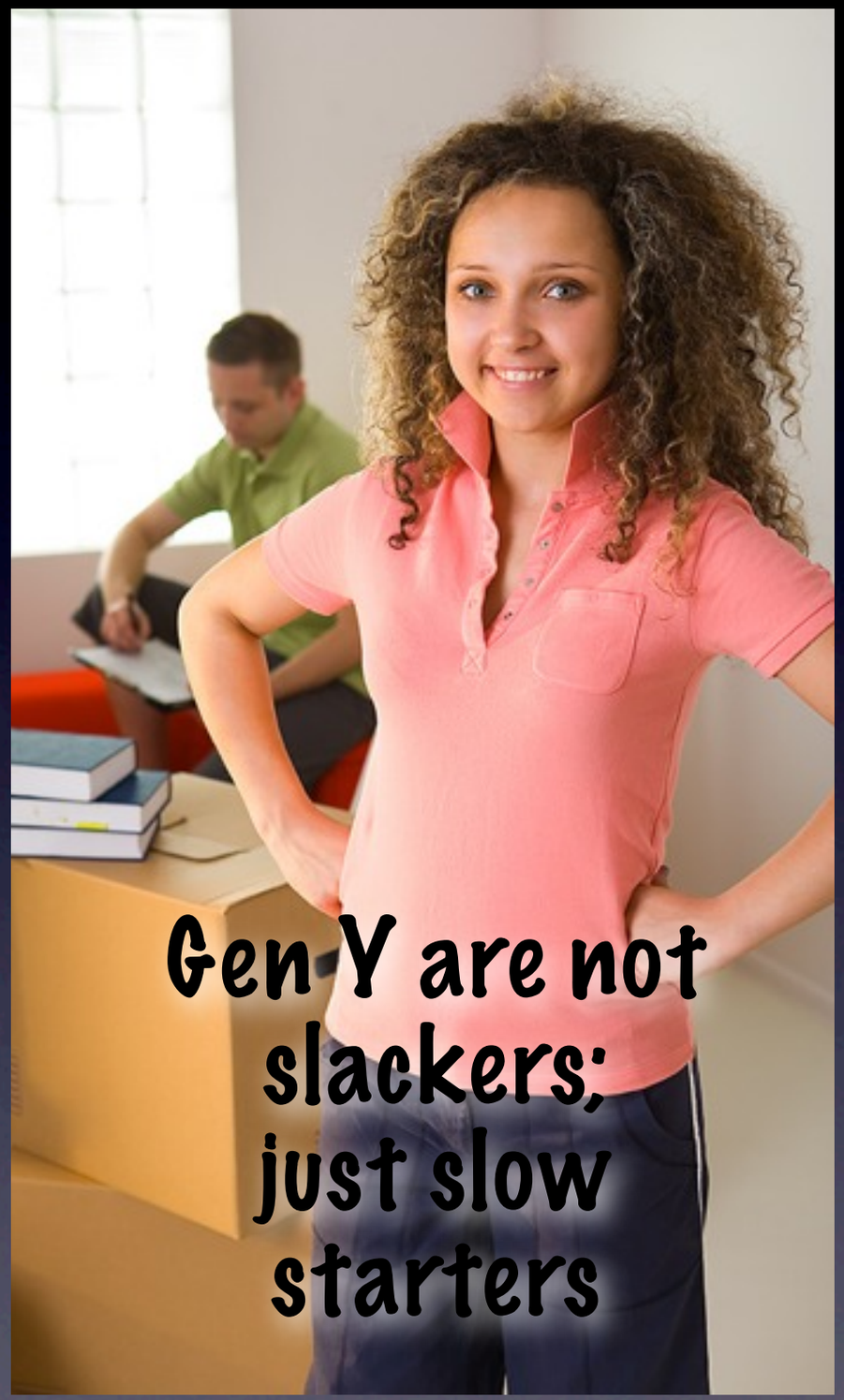
- Deal with information differently.
- Think in hypertext, they leap around.
- Are intuitive visual communicators.
- Learn better through discovery than by being told.
- Are able to shift their attention rapidly from one task to another, and may choose not to pay attention to things that don't interest them.
- Able to respond quickly and expect rapid response in return.



Boomerangers: Young Adults Moving Back Home

- about half of twenty-somethings are supported in some way by their parents
- 19% of parents aged 45-54 report their grown children have moved back home
- just 46% of young adults aged 16-24 are currently employed
- about half of all grown children living with their parents work either full or part-time
- about 25% are unemployed
- about 20% are full-time students

Pew Research Center



Asia

Talent

Opportunity

Pursuit of passion

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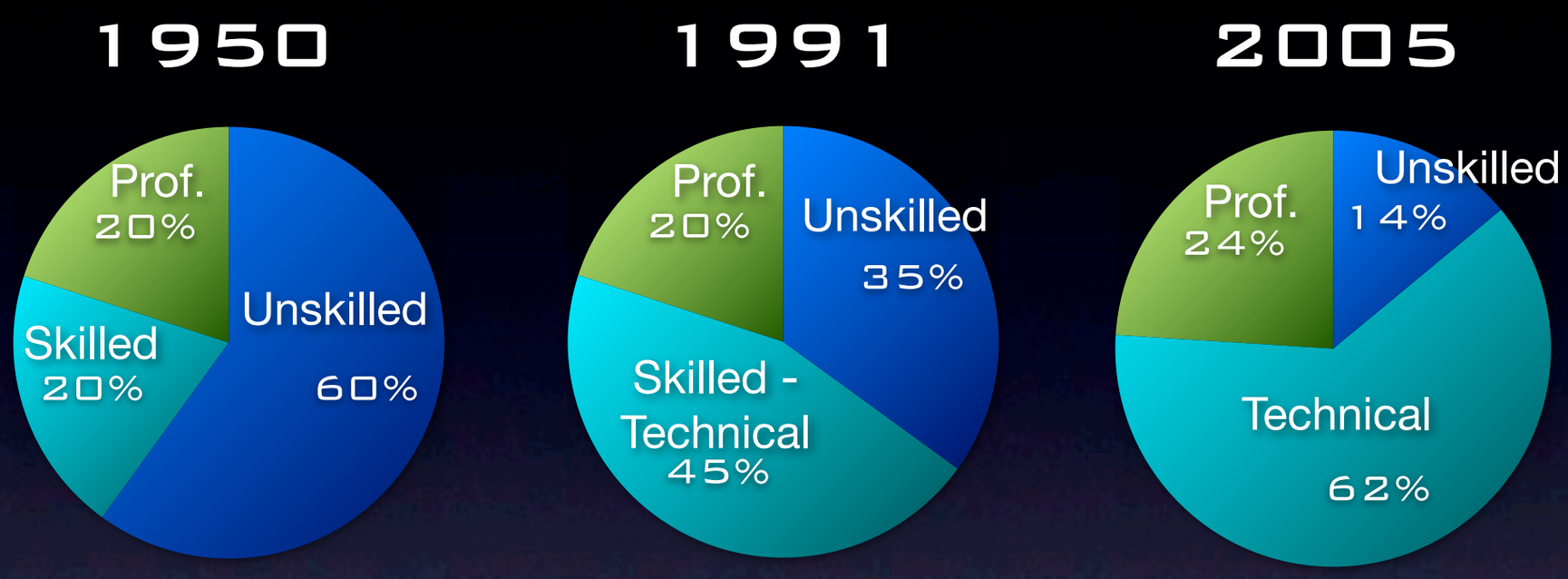
Job Skill Changes

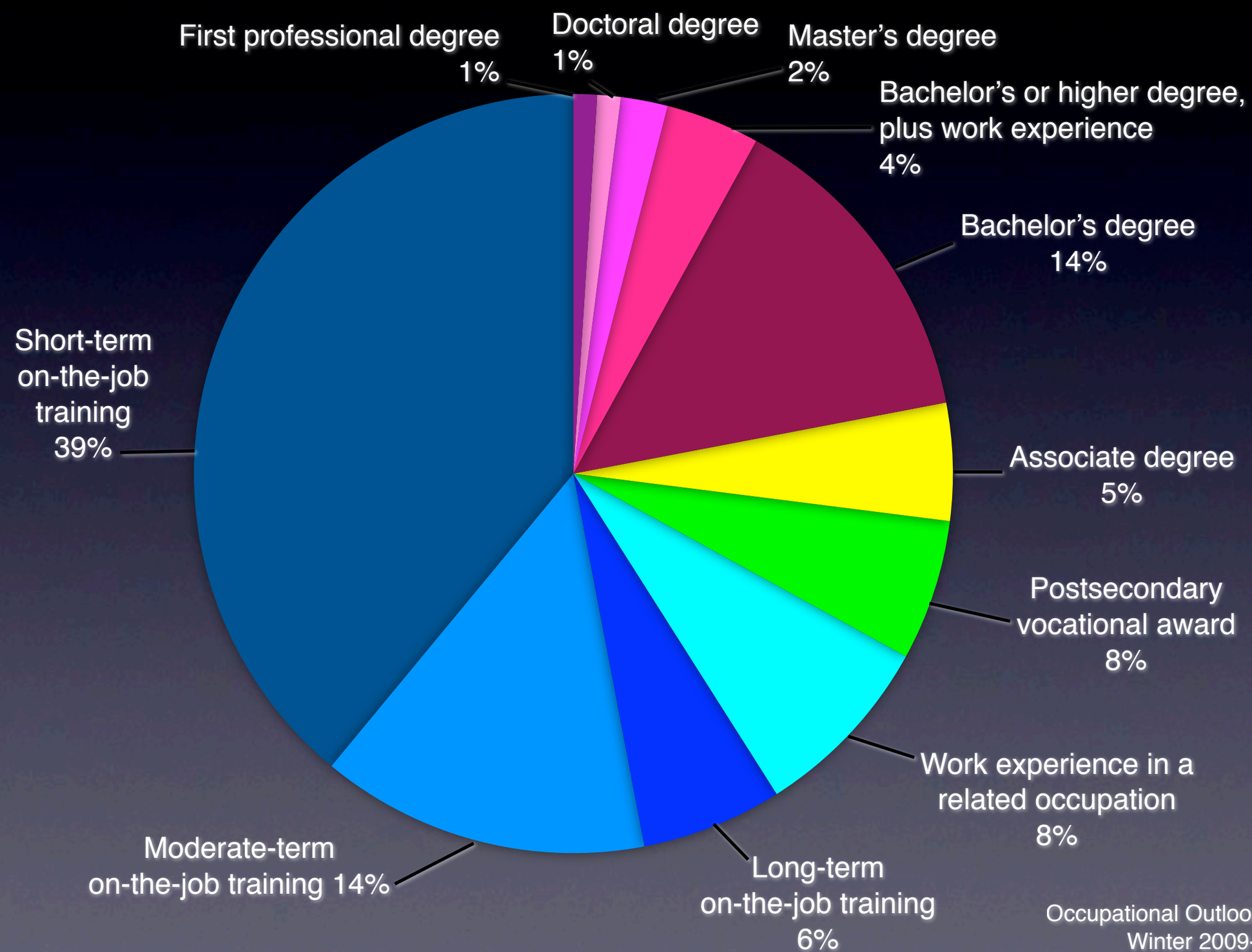


Skilled-Technical:
Education beyond high school
or on-the-job training

Professional:
Bachelors Degree or above

Source:
U.S. Dept. of Labor

Per-cent distribution of job openings due to job growth and replacement needs by education or training level projected 2008-2018



Occupational Outlook Quarterly
Winter 2009-10

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What career is right for me?

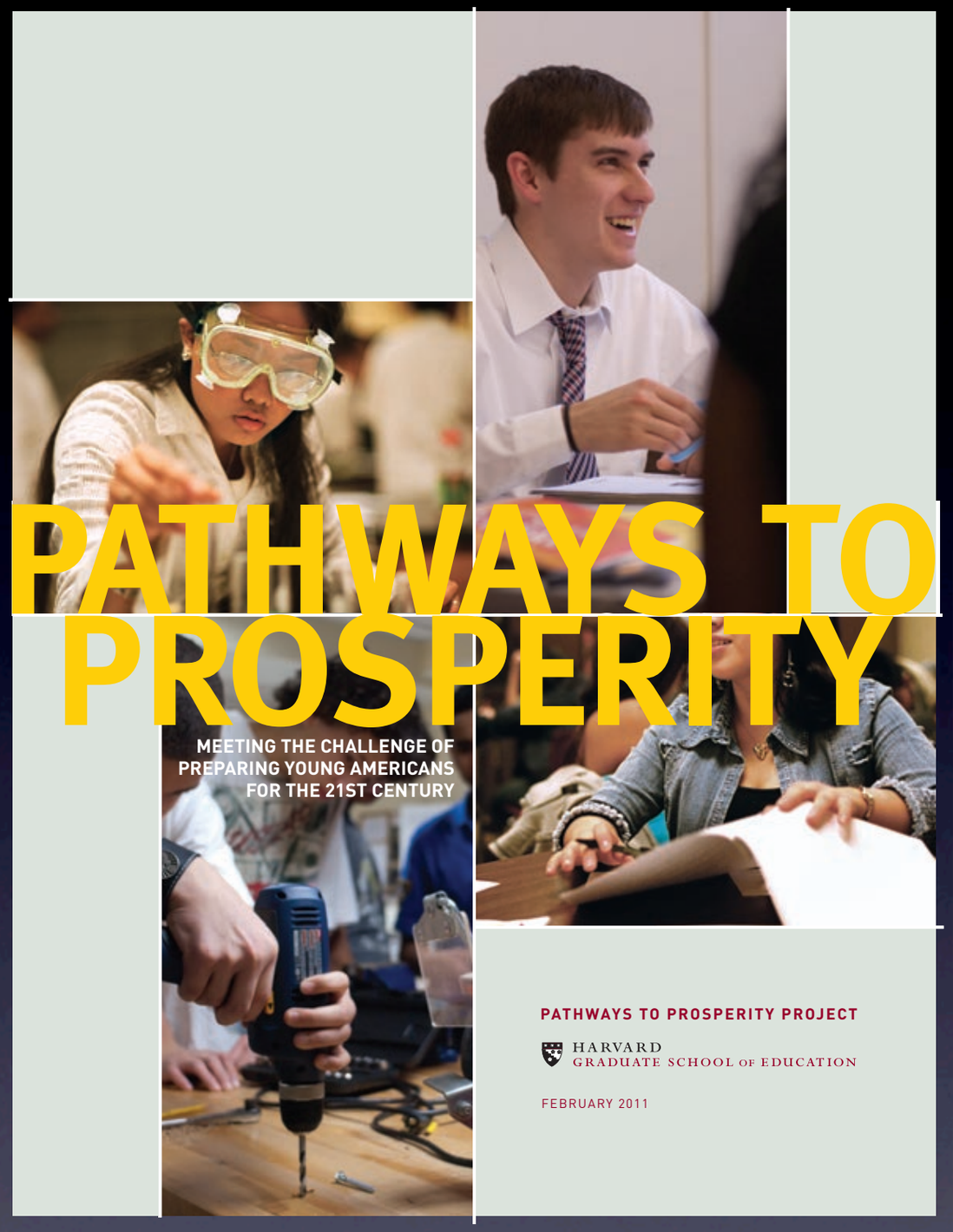
Largest employment growth

1. Registered nurse
2. Home health aide
3. Customer service representative
4. Food preparation and serving workers in food service
5. Personal and home care aides
6. Retail sales
7. Office clerks
8. Accounts and auditors
9. Nursing aides, orderlies, and attendants
10. Postsecondary teachers
11. Construction laborers
12. Elementary school teachers
13. Truck drivers
14. Landscaping and groundskeeping
15. Bookkeeping, accounting and audit clerks

Fastest employment growth

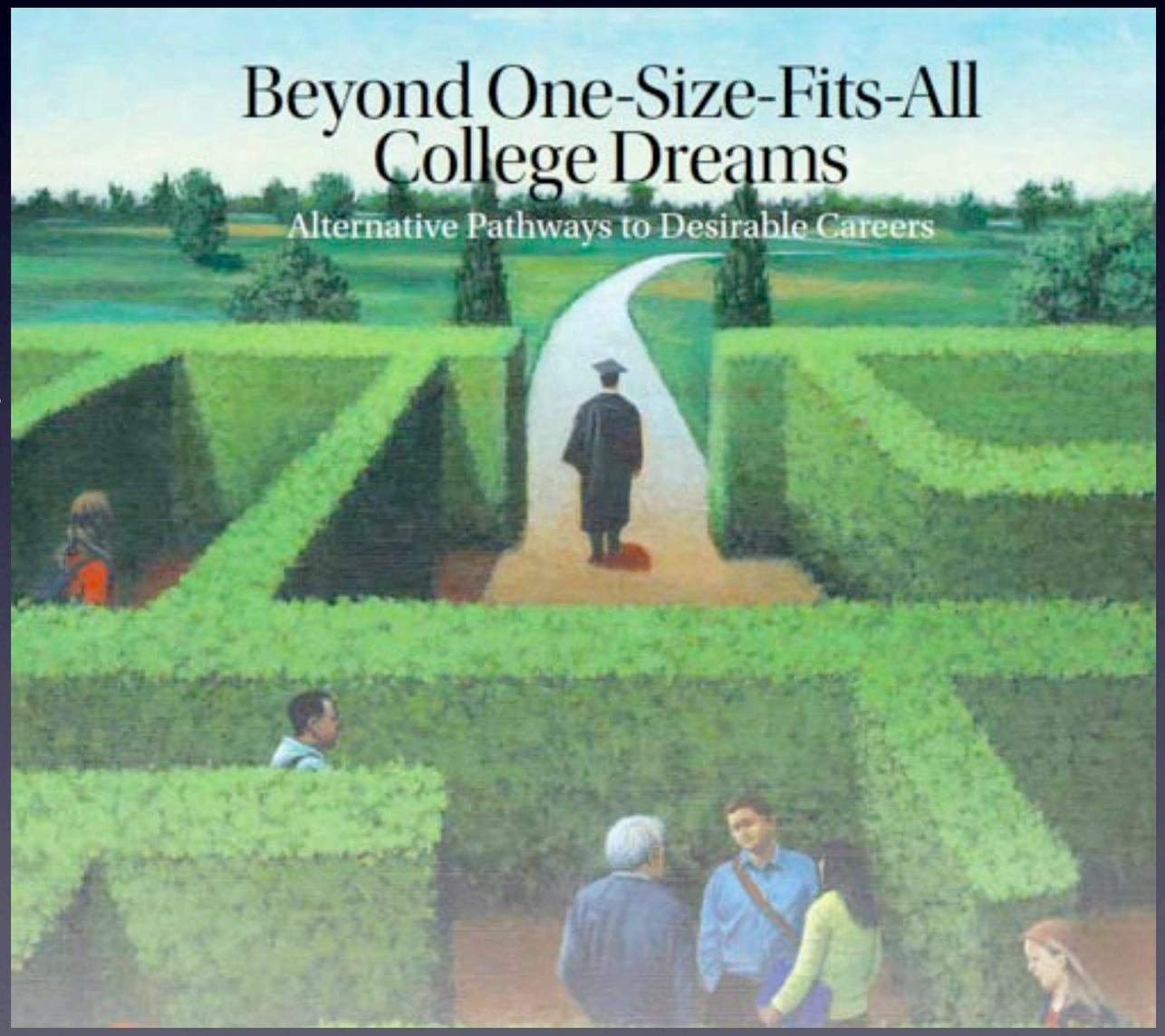
1. Biomedical engineer
2. Network systems and data communications analysts
3. Home health aides
4. Personal and home care aide
5. Financial examiner
6. Medical scientist
7. Physician assistant
8. Skin care specialist
9. Biochemist and biophysist
10. Athletic trainer
11. Physical therapist aide
12. Dental hygienist
13. Veterinary technologist and technician
14. Computer software engineer
15. Medical assistant

Bureau of Labor Statistics Projection 2008-2018



"We all know that many people with jobs that require a BA (e.g., teachers, social workers, etc.) are paid less than some people with jobs that require an AA (e.g., computer specialist, engineering technicians, mechanics, heating/air conditioning repairers, dental and medical assistants, insurance appraisers, and funeral directors). Moreover, there are indications that the BA payoff has declined in recent years."

James E. Rosenbaum
Northwestern University

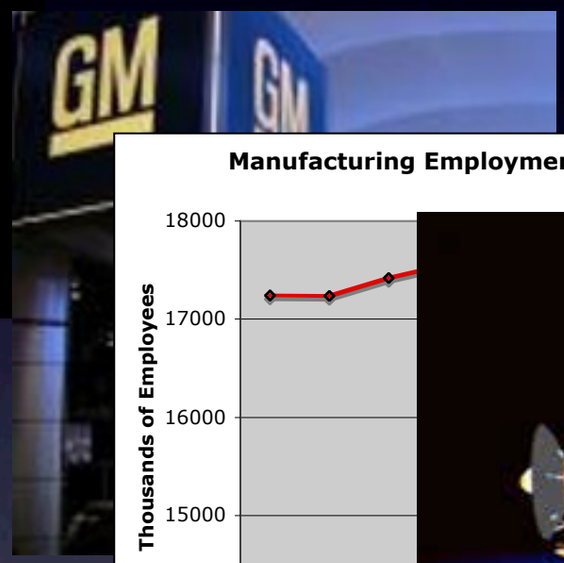


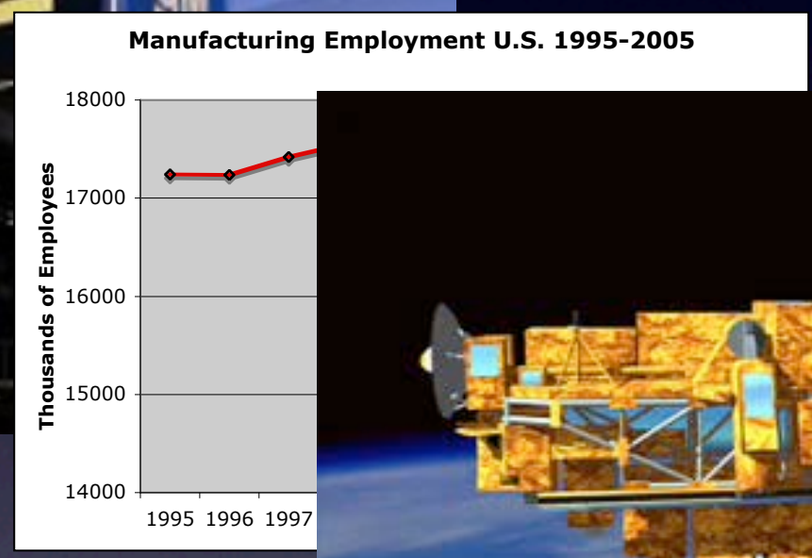
"27 percent of people with post-secondary licenses or certificates—credentials short of an associate's degree—earn more than the average bachelor's degree recipient."

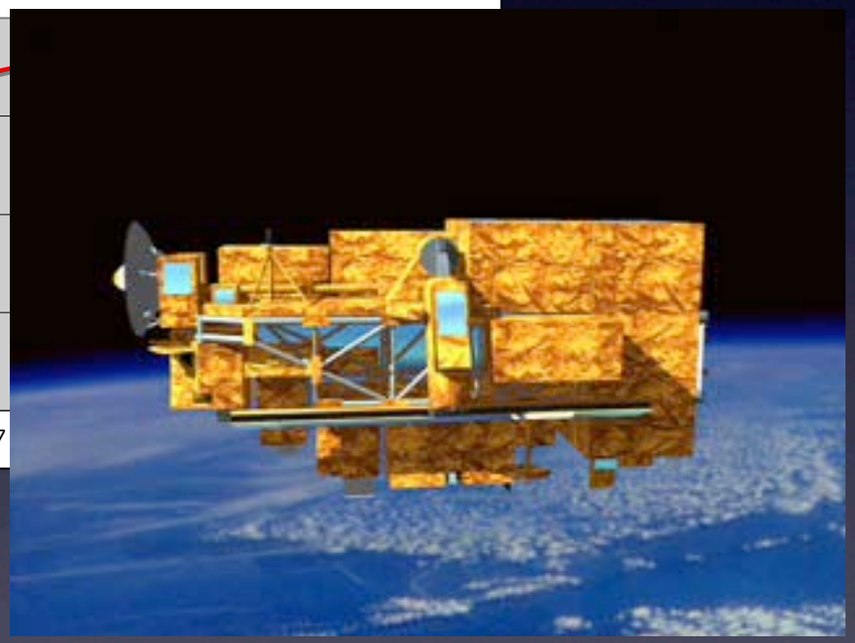
Pathways to Prosperity
Harvard Graduate School of Education

Economic Development

Agriculture > Industrial > Information > Conceptual Age







Global Marketplace

Free Agent:

Education is Changing

- What 21st century competencies do students need to be successful in a global economy?
- How do U.S. educational policies compare to our global competitors'?
- What can CTE do to chart the course of new pathways for students and our schools?

Waiting for Superman

There is no one coming with enough power to save us.

Racing to Nowhere

It Should Be Simple

Race to the Top

- Adopting standards and assessments that prepare students to succeed in college and the workplace to compete in the global economy.
- Building data systems that measure growth and success, and inform teachers and principals about how they can improve instruction.
- Recruiting, developing, rewarding and retaining effective teachers and principals...
- Turning around lowest-achieving schools.

What education trends are evident among our competitors?

- Reduced required courses
- Increased electives including arts and career development
- Including creativity, problem-solving, and entrepreneurship in curriculum
- Increased local control
- Greater emphasis on process rather than output in assessing schools

REFLECTING

ENGAGING

Authenticity

Collaborative Problem Solving

High Touch/High Tech

High Performance

CREATING

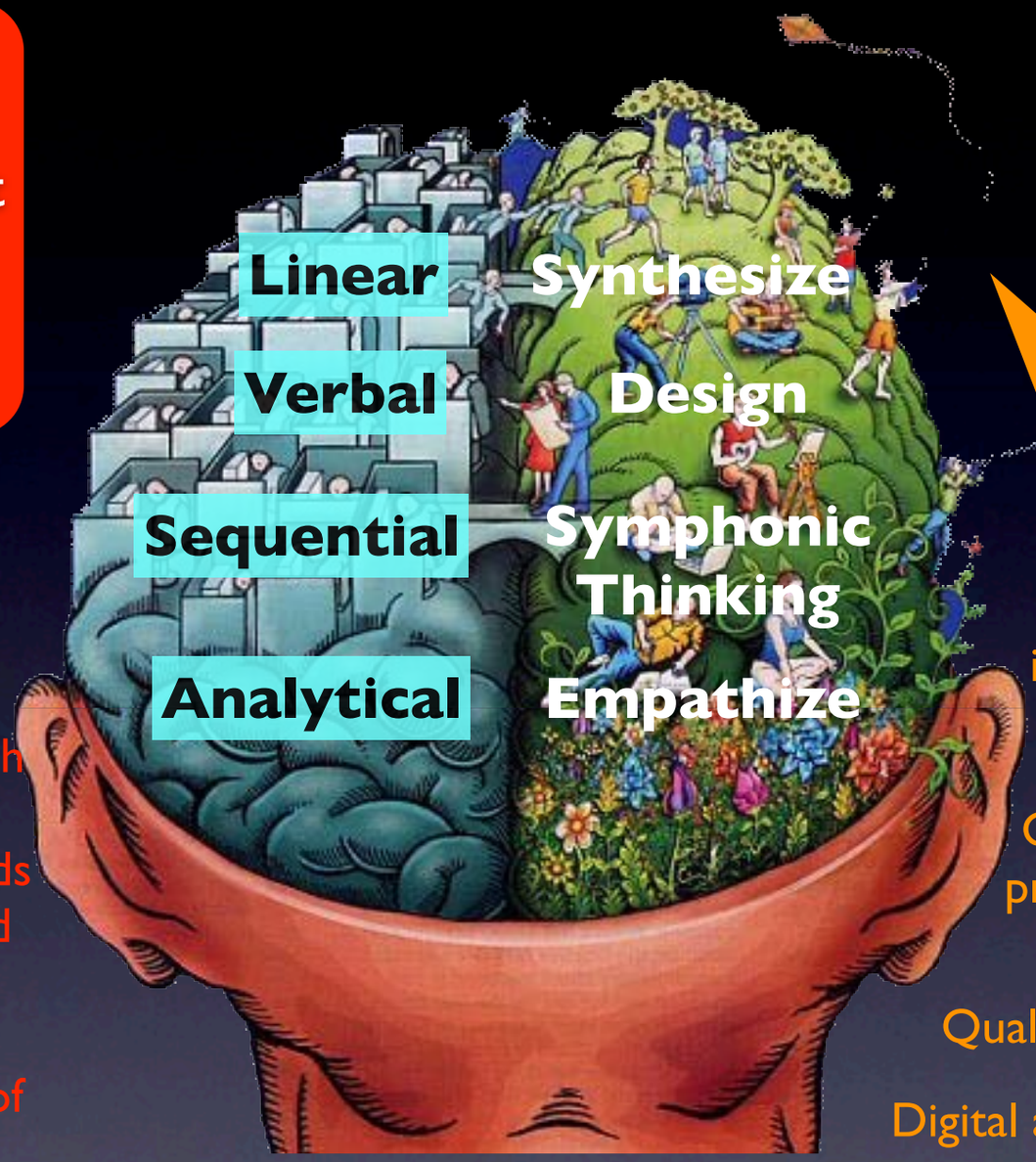
OWNING YOUR PASSION

College Major

Career and Technical Education

Convergent Thinking

1. Classroom rules
2. Attendance
3. Routine lesson plans
4. Silo approach to subjects and standards
5. Standardized tests
6. Low level application of technology



Divergent Thinking

Creative and inventive thinking

Engaged learning

Complex ill-structured problems in a real world context

Quality vs accountability

Digital age literacy

A New Mindset of 21st Century Skills

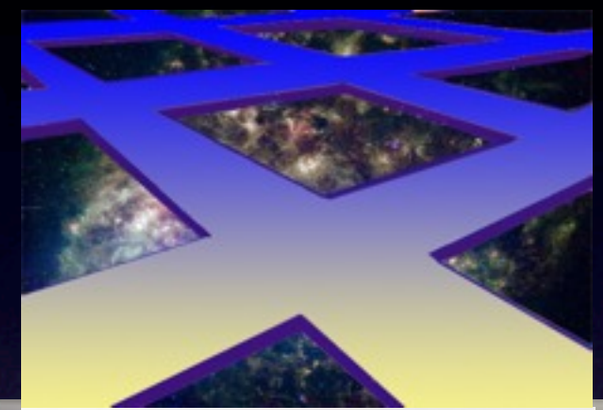
Mobile Learning

Grades and test scores (external rewards) motivate.

Individual Career Paths

pipeline model

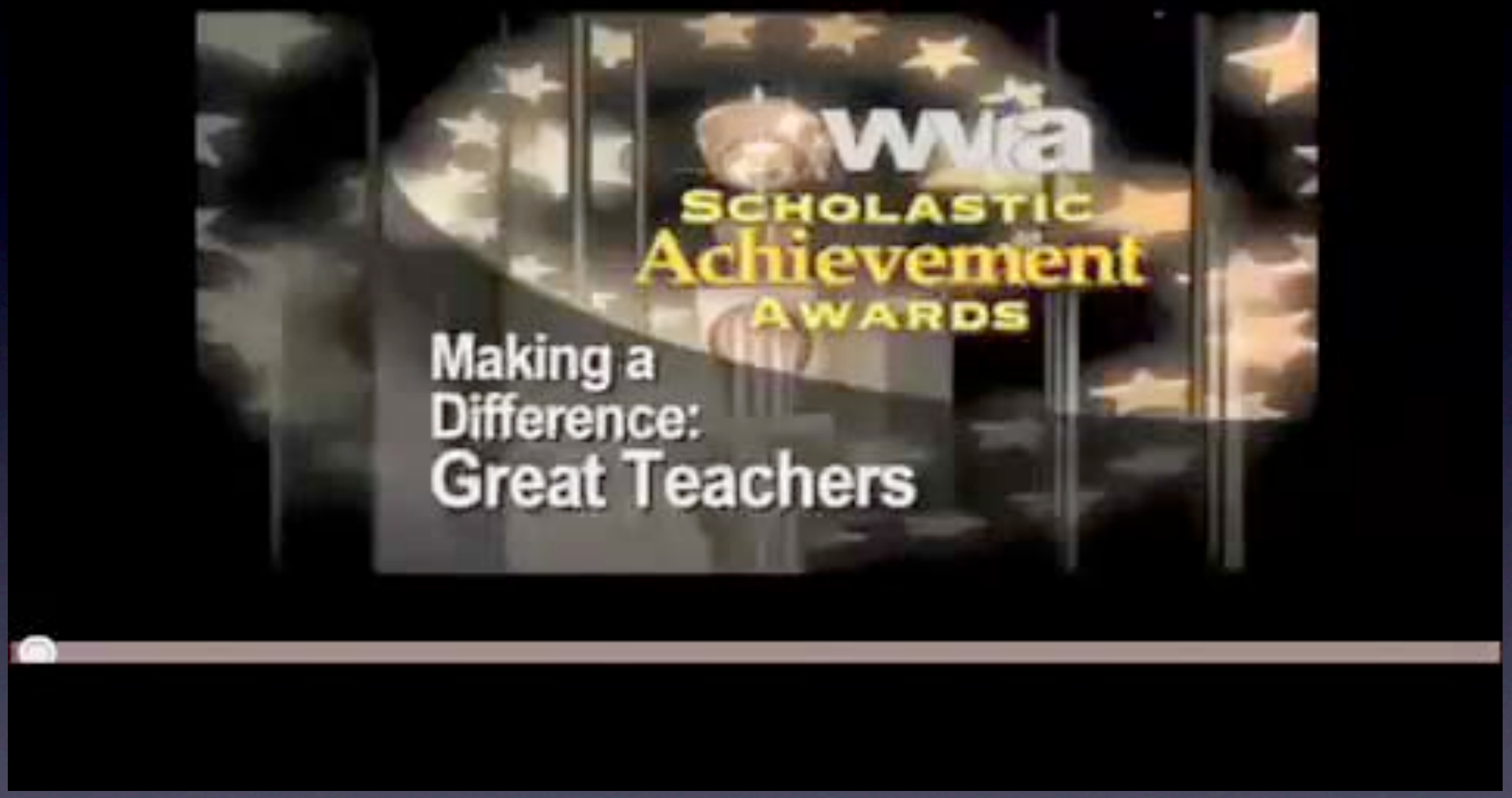
pathways model



Career Pathways

For each individual there is a moment of discovery - finding a pathway to discover our passion and an understanding of who we are.

Teachers Make a Difference



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Talent

Opportunity

Pursuit of passion

What can you do to chart the course of new pathways for students and our schools?