

What jobs can be found in this building?

Directions: While you wait, make a list of as many jobs as possible that would be found within this building.

Sponge Activity,
Anticipatory Set



Integrating Careers to Create Academic Relevance



Presenter:

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Stages of Career Development


- Fantasy
- Tentative
- Realistic
- Decision Making

Ginsberg's Career Development Theory

Career Development Facilitator Training

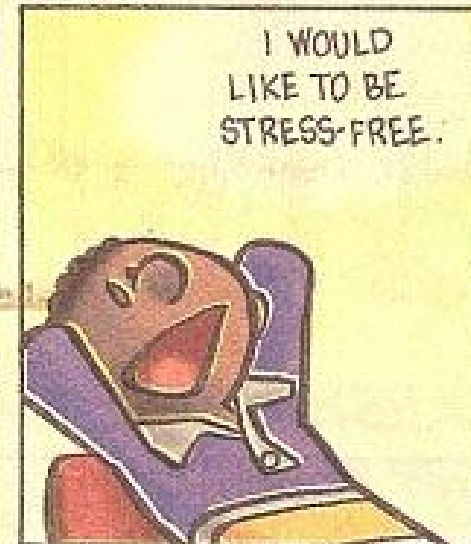
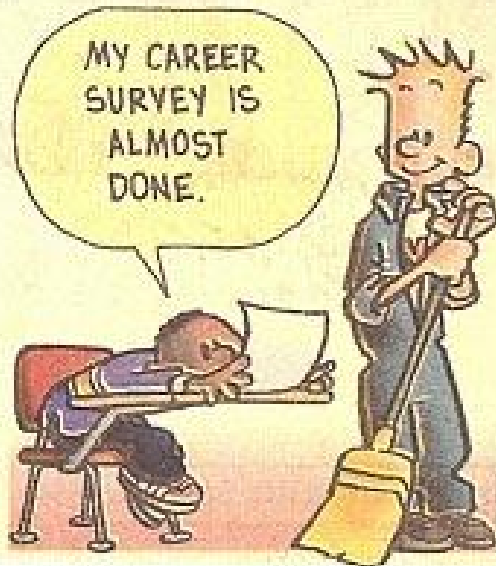
- Information around the room.
- Certification Credential: GCDF
- Website:
<https://sites.google.com/site/crctraininginfo/>

Use very simple ways to connect academics with career relevance



When am I ever going to have to use
this?

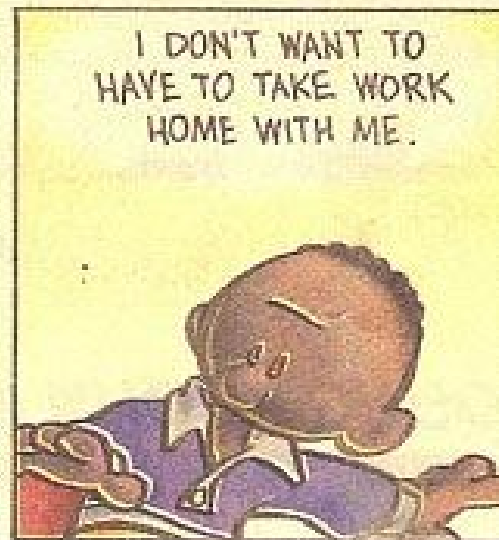
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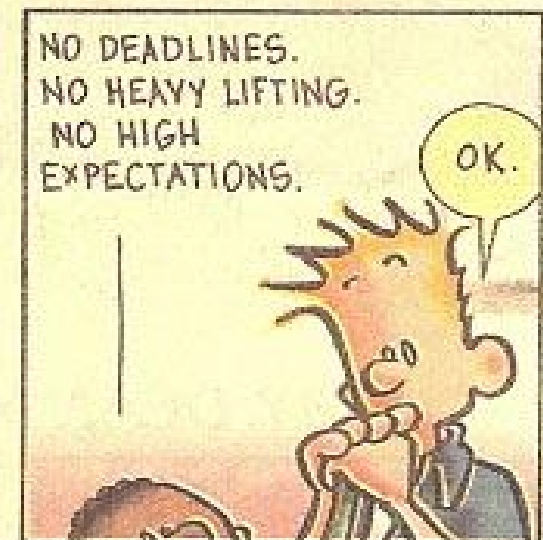
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Speak the Common Language of Businesses and Education!

BY JEF MALLET



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Mandates for Career Connections

- Michigan Merit Curriculum
- Personal Curriculum Legislation
- Science Benchmarks
- Math Benchmarks
- School Improvement Strands
- Career –readiness Certificate

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Seven Aspects of Businesses and Organizations

- 1. Management:** Big companies = managers for each department. Small companies = one manager for several departments.
- 2. Finance:** Anyone working with money coming in or going out of the company.
- 3. Human Resources:** Hiring, firing, pension, benefits, job descriptions, disputes, company picnic, special events
- 4. Communications:** People who reach out to anyone outside the organization: public relations, sales, marketing, advertising, graphic design.
- 5. Information Technology (IT):** Everyone that installs, repairs and programs software for computer systems.

Seven Aspects of Businesses and Organizations

- 6. Health/Safety/Environment:** OSHA inspectors, health inspectors, and environmental inspectors. Also, people who maintain building systems including cleanliness, heating/cooling equipment.
- 7. Technical and Production:** The people who do the work of the business.

Check your card's upper right corner – which aspect is your job?

Adapted from Carl Perkins' All Aspects by Kristen Garceau

How do people get hired in businesses and organizations?

- Employability Skills
- Quickly select a job card from the cards being distributed.

Speak the Common Language

For use with guest speakers or during field studies or career days.

- Connect to skills from top Fortune 500 companies.
- Ask guest speakers to name academic content needed for their job – they circle items from a list!
- Connect to **specific job titles**, degrees and certifications. (Option Awareness!)

Career and Employability Skills!

Personal Management ✓

- Responsibility and self-management
- Self-confidence
- Ethical behavior
- Respect self and others
- Demonstrate ethical behavior
- Motivating self and others
- Recognizing Quality/Not Yet Quality
- Networking

Develop and Present Information ✓

- Teaching/Tutoring
- Combining information in new ways
- Synthesizing
- Summarizing
- Using symbols, pictures, charts and graphs
- Comparing/Contrasting
- Forming a viewpoint
- Generalizing (based on information and experience)
- Presenting
- Speaking

Adapted from: Michigan Career and Employability Standards and 21st Century Skills
by Kristen Garceau

Problem Solving ✓

- Questioning
- Investigating
- Researching
- Analyzing/Evaluating
- Appraising
- Assessing
- Estimating
- Predicting
- Setting goals
- Consider impacts
- Generate alternatives
- Planning
- Making decisions
- Taking action
- Evaluating results

Organizational Skills ✓

- Identify, organize, plan and allocate: time, money, material, human resources.
- Categorizing
- Managing

Understand Systems ✓

- Understand systems.
- Work with /maintain technologies
- Computing

Identify and Pursue Career Goals ✓

- Acquire, organize, interpret and evaluate career-related information.
- Interviewing

Applied Academics in Work Related Situations ✓

- Reading
- Reasoning
- Thinking Critically
- Teaching/Tutoring
- Writing
- Academic Projects

Negotiation Skills ✓

- Perceiving
- Communicate to support a position
- Resolve divergent interests
- Developing insights/intuition
- Express Empathy
- Persuading

Teamwork ✓

- Work cooperatively
- Identify group goals and values
- Exercise leadership
- Teach others
- Serve clients or customers
- Contribute ideas and effort
- Being flexible
- Collaborating
- Communicating
- Goal setting
- Negotiating
- Listening
- Respecting Others

Employers want these skills; with them you can earn a living and advance in your career!

Career and Employability Skills!

- Top “Fortune 500” employers want these skills, students develop them in school!
- Use them as key words in your resume.

✓ List an activity in the top boxes, check the skills used for each!

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Adapted 2011 from Michigan Career and Employability Standards and 21st Century Skills by Kristen Garceau

<p>Chemistry Motion, forces Magnets, energy the atom, chemical formula writing Acids and bases Carbon compounds Chemical bonding The relationship between atomic structure and chemical properties Chemical and physical properties of elements and compounds and reactions</p>	<p>Biology Cells Microscope use Heredity Ecology, ecosystems Living things – including all five kingdoms Anatomy and physiology</p>
<p>Physics Mechanics and heat Force and motion Matter and energy Machines Temperature, heat and change of phase. Light, electricity, and sound Wave nature and wave interactions Study of light Sound and electricity</p>	<p>Anatomy and Physiology Structures and functions of the human body Body systems</p>
<p>Microbiology Metabolism, Growing and culturing bacteria Gram staining, Petri plates and sterile technique Microbial diseases, viruses Protozoa, fungi Sterilization and disinfection Epidemiology, microbial STD's, AIDs. Biosphere 2 Common micro-life on and in the human body Bioluminescence Planet seeding and exobiology Microbes Bugs that kill bugs</p>	<p>Genetics Cloning, genetic engineering, genetic fingerprinting Molecular human development Nature vs. nurture Mutations Genetically modified foods The genetics of race Molecular clocks & evolution Immunity, and medical technology Blood typing Color blindness Transgenic organisms</p>

Common Language Handout:

Speakers identify content

This handout via email file.

Math Topics

Area

Areas of Circles

Area of a trapezoid

Area under a curve

Averages/ Mean

Bar graphs

Basic math computation

Calculator skills, Graphing calculators

Calculus: Area of ellipses, area under curves, right triangle, trigonometry, volume of cones.

Central angles

Computing cost

Correlation coefficient

Critical thinking

Charts

Circles: area, diameter and radius, circumference

Circumference

Coordinate plotting

Decimals

Decimal multiplication

Density

Discounts and Mark-ups

Distance

Estimation

Length

Linear Equations

Percentages

Polar coordinates, parameterizations and conic sections.

Polynomial regression

Predicting data

Probability

Problem solving

Proportion

Pythagorean theorem

Quadratic Equations

Quadratic functions

Rates of Change

Ratios

Reasoning skills

Rectangular coordinates

Relationship between variables

Relationships direct and inverse

Right triangle

Scale

Scatter plots

Sequences, series and mathematical induction

Slope

Slope and Intercept

Common Language Handout:

Speakers identify content

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via email file.

Social Studies Topics

<u>Civics</u>	<u>US History</u>	<u>World History</u>
Branches: Legislative, Executive, Judicial Careers in government (and How to get them) Charters of Freedom (Declaration of Independence, Constitution and Bill of Rights) Economy Election process Federalism Foreign Policy Government Structure and Processes Interest groups and Media Ideologies International Relations Individual Rights Law Local government Origins of Government Politics State Government Purposes Political parties Voting Working Poor, War on Drugs and impact on the economy	Presidents New Deal Civil Rights movement Military War – WW I, WWII, Cold War, Korean War, Vietnam War and Counter Culture Roaring 20s Expansion of U.S. Industrial Age/Revolution Immigration 1950's The Great Depression Progressive Movement/Era Environmental Movement Social Movements Historical Figures Turbulent 60's Civil Rights Foreign Policy Domestic Policy Watergate Women's Suffrage 1980s Reaganomics Progressive Era Closing of Frontier Glided Age Great Society Post 9/11 War on Terrorism	Prehistory Ancient Civilizations Middle Ages, Renaissance Absolutism Revolutions Enlightenment World War I, World War II Cold War Various population placement Establishment of countries Culture Geography, maps, ceraphs, charts History of China/Asia, Africa, Europe (Middle Ages, French Revolution, Enlightenment etc.) South Asia/Southeast Asia, Middle East <u>Advanced Psychology</u> Emotions Interviewing Various psychological studies Study of Brain Individual Behavior Theories on changing Behavior Environment vs. Heredity <u>Sociology</u> Study of Groups of People Behavior Effects of Family Unit Factors that change personality: education, religion, ethnic background

Common
Language
Handout:

Speakers
identify
content

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If every teacher used career relevance for ten minutes twice each semester, all students would get more than four hours of academic/career relevance every school year!

- Speak the “Common Language of Business/Education.” Especially good with guest speakers or field studies.
- Begin the day with Sponge Activities or Anticipatory Sets.

Sponge Activities

- Look at the job you've chosen, how are academics useful to this job?
- Put current classroom topic on the board; students write jobs/careers that would use the topic.
- Break up units and assign one unit to each student per year. Students research jobs that are used as part of that unit. They present findings on the day of introduction of unit.
- Answer the question, How will this academic subject help you achieve your short and/or long term goals listed on your career plan?

Sponge Activity: Current-event prompt

1. Make a list of businesses that are still involved with the earthquake in Haiti?
2. Choose one business (American Red Cross) and make a list of jobs that might be employed in the Haitian earthquake.

OR

3. Make a list of the how Science or Language Arts are needed in Haiti.
4. Who is using math in Haiti....how?

More sponge ideas

- List a career that would be created during a particular time period that you are studying.
- How would careers in business or health care be affected by the civil war?
- Think of your favorite thing to do; how could you develop this into a job.
- List a job you know a lot about. Write about the exposure to this career they have had.

Additional

- Create conversations and excitement for learning through Career Pathways Differentiation.
- Create dynamic relationships with students by enhancing the real-world relevance of your content area.

Michigan's Six Career Pathways

Human Services: Careers include interacting with people, helping solve problems and serving the public.



Natural Resources and Agriscience: Careers include people who want to work with plants, animals and the environment. They also include people who are inspectors and compliance officers or those interested in working for natural resources and agriscience organizations.



Arts and Communication: Careers related to communication and the performing, visual, literary and media arts. These careers include public relations, marketing and advertising.



Michigan's Six Career Pathways

Business, Management, Marketing and Technology: Careers related to business operations, management, finance, office operations, and information processing and marketing. These careers can often be linked to a second career pathway of interest.



Engineering/Manufacturing and Industrial Technology: Careers related to technologies necessary to design, develop, install or maintain physical systems. These careers can also relate to building and trades industries.



Health Sciences: Careers related to the promotion of health and the treatment of injuries and disease.



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To get more information:

- Sign up on the list to receive more information from today's discussion.
- Contact me for presentation information
kgarc@bciwildblue.com
269-657-2123
- View the website
<https://sites.google.com/site/crcrtraininginfo/>
- Career Development Facilitator Training

The Classroom Evolution!

- Begin in simple ways
- Accumulate a “toolbox” of resources
- Build and evolve practices that develop relationships between your content and local businesses/organizations, job titles and skills.