A Bright IDEA: Preparing Students to be Scholarly for a Lifetime: A Futurist's Perspective

by

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Gayle, Margaret Evans, Foreword, *Preparing Students to be Scholars for a Lifetime, What's a Parent to Do?* Edited by Mark DeLong, Ph.D. and Webb Howell. Journalistic Inc., 1995.

Handouts

- Diversity and Leadership Transformational Model
- Rigor Article (Matusevich, O'Connor and Hargett)
- NC STEM21 Framework based on National and State Standards, (adapted by Gayle)
- Gifted Intelligent Behaviors, HOM & TAB's (Costa, Kallick and Frasier) & Sample Rubric
- Learning Styles (Silver & Strong)
- Big Ideas Defined for Unpacking Standards and Resources
- Components of Project Bright IDEA Training
- Bibliography of Bright IDEA Resources & Info

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Scholarly Defined

- **Somebody who has a great deal of knowledge, especially an academic who specializes in a particular arts subject;**

- **Relating to scholars or to formal study;**

- In keeping with a rigorous and systematic approach to acquiring knowledge **or to setting out the results of formal study.** (Microsoft Word Dictionary)

For learning, work and citizenship

- **My definition for education for all: be scholarly in all that you do…….**

In keeping with a rigorous and systematic approach to acquiring knowledge

Essential Questions for Educators

- How do we educate the child born in the 21st Century to live, work and compete in the "flat world" described by Thomas Friedman?

- How will this generation of children grow up with the necessary knowledge and wisdom as defined by the new 21st century taxonomies, to address issues, problems and challenges when solutions are complex and not easily definable and accessible?

- Most importantly, how will children have meta-cognitive prowess to explore deeper questions to ponder and seek solutions to problems not yet known?

The Future

- **Who Creates the Future?**

- **Why should we think about the future?**

- **What is your role in preparing for the future? (Personal and Professional)**

- **Are you motivated to……**
  - **invent new models (paradigms) of learning?**
  - **design and build new curriculum using digital technologies?**
  - **help students design a resume for the future?**

How? In Collaboration

- **Teachers**
  - **Model Scholars**
  - **Leaders of Learning**
  - **Curriculum Designers**
  - **Facilitators**
  - **Mentors**

- **Students**
  - **Future Scholars**
  - Curriculum Builders
  - Have their own questions
  - From Pac Man to X-Box, dot.com and beyond
  - Global Learners in The Mobile Wave

Curriculum Environment

- **Seamless, user-friendly technology that provides access to resources and communities of learners**

- **Individualized within a network of rich content, multimedia resources, and data**

- **Editors and Publishers versus Consumers**

- **From Knowing to Learning (Inquiry)**

- **Intergenerational and Color Blind**

Strategic Scholarly Thinking

- **Develop a Vision toward the Future**
- **Join Learning Organizations**
- **Generate Ideas, Concepts and Solutions**
- **Study Emerging Research Trends**
- **Apply Intelligent Habits of Mind and Gifted Behaviors**
- **Apply Careful and Ethical Behavior to learning, work and life**

Education Now!

- **GLOBAL LEARNER Unlimited**
- **From the MASSES to the INDIVIDUAL**
- **HOME As the CENTER Of LEARNING**
- **INTERNATIONAL COMMUNICATION**
- **VIRTUAL LEARNING TOOLS**
- **VIRTUAL LEARNING & SOCIAL COMMUNITIES**

The Economy

- **Entrepreneurs and entrepreneurial strategies and activities will be increasingly important to the economic health of a community or region.**
  - **Growth of small businesses and cottage industries**
  - **Increasing numbers of contractual workers**
  - **Entrepreneurial spirit and strategies will be necessary for all effective individuals and employees** M.Gayle c.1995, revised 2003, 2012

The Economy

- **The 21st Century economy is being shaped by and will be permeated with technology.**
  - **Digital Economy**
  - **Global Economy**
  - **Knowledge and Information Age**
  - **Social and Networking Mobile Wave**

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Learning and Work

- **Scholar's** Learning Mode
- **Competency-based versus seat time**
- **Expert online systems are evaluating resumes, credentials, and determining who will be selected for jobs & careers.**
- **Personal vs Institutional** Responsibility for learning

Workforce

- **The workforce will continue to provide both rich opportunities and severe dislocations**
  - **Mismatch between skills needed and skills available**
  - **Continuous learning on the job**
  - **Increasing importance of contract workers (temps, contingent workers, free agents)**

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Trend

- **Demand for personnel in distant countries will increase the need for foreign-language training, employee incentives suited to other cultures, aid to executives going overseas, and the many other aspects of doing business in other countries. [Cetron & Davies, 2003]**
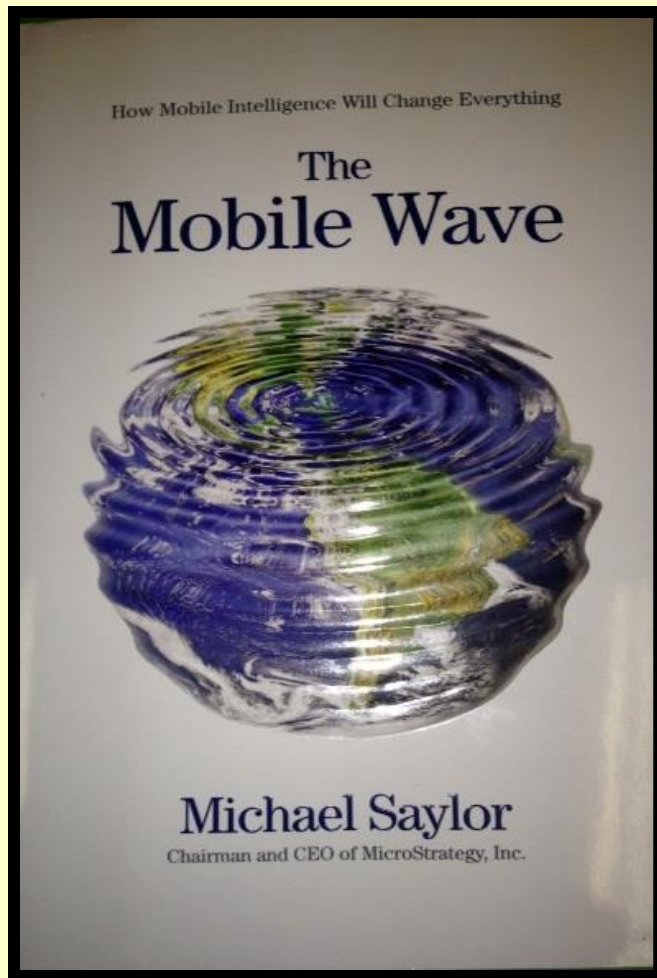
Work

- **Work and learning will increasingly be integrated and continuous**

- **Knowledge and skills will rapidly become obsolete; intelligent behaviors, collaboration and practical/procedural knowledge will be more valued**

- **Innovative and effective training and retraining strategies will be essential.**

- **Successful enterprises will have a culture of learning and will focus on knowledge management.**

Workers

- **Workers will have primary responsibility for designing and evolving their careers.**
  - **Obtaining mentors**
  - **Identifying career pathways**
  - **Continuing to build knowledge and skills through education and training**
  - **Keeping a journal/portfolio of scholarly activities and products**

Mobile Trends - Saylor

Vanguard Press, 2012

How Mobile Intelligence Will Change Everything

The
Mobile Wave

Michael Saylor

Chairman and CEO of MicroStrategy, Inc.

- Universal Computing Platform for Mankind

- 24 hours a day for business/leisure

- Disrupt behaviors affecting consumers, businesses, government, global economy and politics

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The Evolution - Saylor

- **First Wave - The Mainframe**
- **Second Wave - The Minicomputer**
- **Third Wave - The Desktop Computer**
- **Fourth Wave - The Internet PC**
  - **Early Mobile - From Cell to Blackberry**
- **Fifth Wave - Mobile Internet**
  - **1980 - Apple's entry - 1983 - "Newton"**
  - **2007 - Apple's IPhone**

Mobile Trends - Saylor

- **De-materializing of products to software**
  - **Entertainment**
  - **Mega-Store Showroom**
  - **Universal Education**
  - **Medical Care -Worldwide availability**
  - **Jumpstart to Economies in Developing Countries**

- **Cyberspace Scenarios**
  - Software Keys from one mobile device to another to do specific activities for specific people or businesses
  - **For More: Charlie Rose Interview of Michael Saylor, October 17, 2012**

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EDUCATION RESEARCH ISSUES - New Models

- **Changing Nature of Intelligence - Costa and new research studies**

- **Multiple Intelligences - Gardner**

- **Gifted Potential of All Students**

- **Alternative Assessments**

- **Curriculum Models - Thinking Skills**

- **Retraining all educators in best practices**

ISSUES

- **Changing Attitudes About Labels for Students - Name Calling and Negative Attributes**

- **Closing the "Opportunity and Gifted Gaps"**

- **Capacities for Learning**

- **Accountability and Testing**

- **Funding for Training Educators**

- **More Training Programs Aligned to the Mobile World**

STRATEGIES

- **More Entrepreneurial Approaches**
- **Development of Interests**
- **Respectful Relationships between School and Families**
- **Mentoring Models**
- **Accelerated Models**
- **Business Collaboration**

From Dr. William "Sandy" Darity, Duke University on Identification for Honors and Gifted Programs:

"Universalize the equivalent of the Gifted Program for all students."

Gifted Placement:

"One out five, if a White kid; One out of twenty, if a Black or Hispanic kid"

State of Things - WUNC Radio - June 2006

Bright IDEA Training for Educators

- **Tailors** best gifted and regular education methodologies for teachers/principals/specialists to use with all students.

- **Changes** the dispositions of teachers to believe that all students can "be smart" when immersed in rich and engaging curriculum and motivates them to find the talents, learning styles, interest and gifted behaviors in each student.

- **Builds** on the most advanced research and practices.

- **Focuses** on empowering regular classroom teachers, principals and curriculum specialists, though training and mentoring, to become curriculum innovators and architects for the future.

- **Trains** teachers to design interdisciplinary, concept-based curricular units based on state standards, taxonomies, universal concepts and big ideas.

Bright IDEA Professional Development

- **Teachers, Principals and Specialists are taught to:**
  - "deconstruct" the standards for the "Big Ideas" and universal concepts
  - "unpack" the level of cognitive and meta-cognitive thinking in the standards in order to create defensible differentiated curricula for all students
  - design concept-based units of studies aligned to formative and summative assessments and six facets of understanding
  - align curriculum, instruction and assessment using the Revised Bloom's Taxonomy
  - understand the impact of Marzano's Taxonomy on interest development and student learning

Impact on Students

- **Infuses** *Building Thinking Skills, Gifted Intelligent Behaviors and Multiple Intelligences into all of the curriculum*

- **Redesigns** classroom environments to meet the learning styles, abilities and interests of all children

- **delivers** instruction through tiered levels of difficulty (curriculum is designed for the top 3-5% class) with entry levels for all students

- **ensures** success for students through flexible grouping and multiple intelligence centers around learning targets, performance tasks, skill development, and formative assessment of procedural knowledge

Concept-Based Curriculum

- **Common Core (2013)**
  - **More Scholarly for all students**
  - **80% Non-Fiction Texts (Social Studies)**
  - **Research and Writing Focus**
  - **Fact vs Fiction**
  - **Advanced Math Standards**
  - **Interdisciplinary Units of Study**

- **STEM Framework for K-12 - NC**
  - **NC STEM Network, RTP in NC**
  - **NCDPI STEM Office**
  - **Engineering Standards FY 2013**
  - **NSF Funding**
  - **Golden Leaf Funding**

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Concept-Based Units of Study

- **Universal Concepts**
  (Sandra Kaplan, 1991)
  - CHANGE
  - CONFLICT
  - EXPLORATION
  - FORCE
  - ORDER
  - PATTERNS
  - POWER
  - STRUCTURE
  - SYSTEMS
  - RELATIONSHIPS

- **Problem Based Learning**
  - Torrence's Problem Solving Model, UGA
  - Differentiate Performance Tasks by
    - Academic Disciplines Integrated
    - Student Interests
    - Learning Styles
    - Gifted Behaviors
    - Three Tiered Levels of Learning

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Bright IDEA is….

A Nurturing and Cognitive Development Strategy for all children and a re-training model for all teachers.