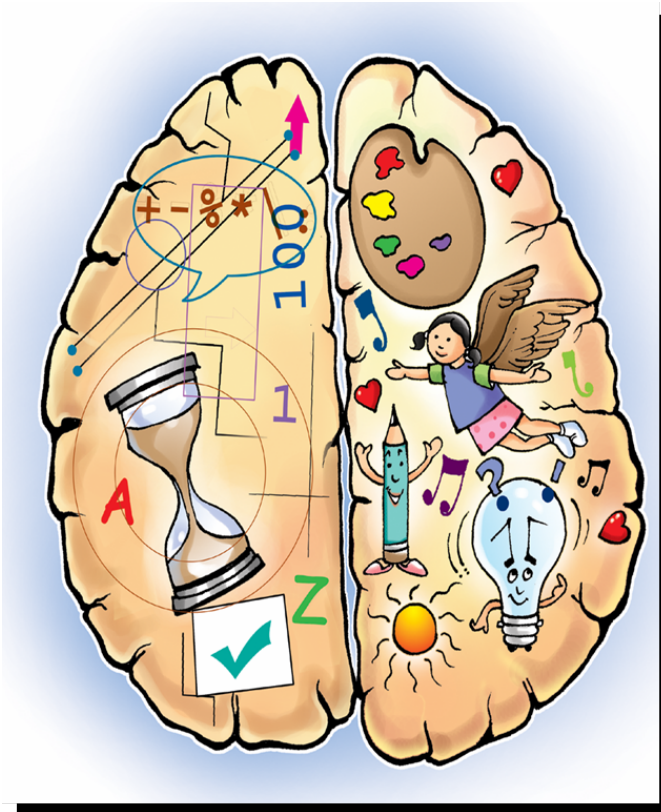


The 21st Century Curriculum

Whole-Brain Education



Disclaimer “B” Required by US Colleges Of Education

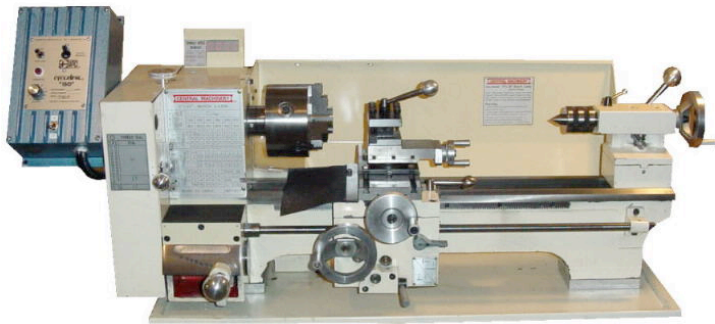
- I am not an educator
- I do not have a degree in education
- I am a businessman
- Entrepreneur and new venture investor
 - Watch for vague, disparate patterns of opportunity
 - Go against “established wisdom” or “crowds”
 - Bet my own money and trust my intuition
 - More losers than winners, but winners are big winners
- View the 21st century through personal experience not mathematical models or other’s research
- I believe economic competition will exist for some time and it will be intense – “lunches will be eaten”

Purpose of Primary & Secondary Education

- Develop the “Educated Young Adult” not the “militarized student”
- Provide children with sufficient:
 - **Content Knowledge**
 - Key Skills
 - Wide Experiences
 - Competitive Qualities & Attributes
 - Personal motivation and discover innate passions
- To sustain economic self-sufficiency as adults
 - Broad CORE INTELLECTUAL FOUNDATION
 - Intentional creativity, inventiveness, collaboration, critical thinking
 - Possess the underpinning to maximize natural gifts or passions
 - Continuous learner – building strengths & overcoming weaknesses
 - Adaptable to 6-12 career changes over 40 years
- Prepare responsible citizens for a functioning society
- Promote peace & world harmony, but equip kids to compete head-on

Knowledge to Sustain Under Change

Shop Floor 1990



Shop Floor 1995

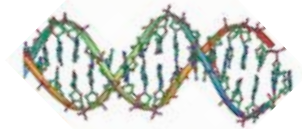


Embrace Change and Learn New Skills

Spine Sales Rep - 1995



Spine Sales Rep - 2000



Possess Strong Cognitive Skills

Executive Assistant – 1970's

Technology



Communication

Typed letter w carbon copy
Phone calls w written messages

Travel

Phoned travel agent

Executive Assistant – 2009



Jobs of 21st Century – My Beliefs

- More cognitive ability
 - math & science*
- Globally competitive
 - Major languages
- Continuous learning of new material
 - Requires broad, solid foundation
- Demand more innovation
 - Need to be creative, inventive, innovative

* - Eric Hanushek

20th C Education Emphasized

WORDS

LINES

LISTS

ORDER

TIME

NUMBERS

LOGIC

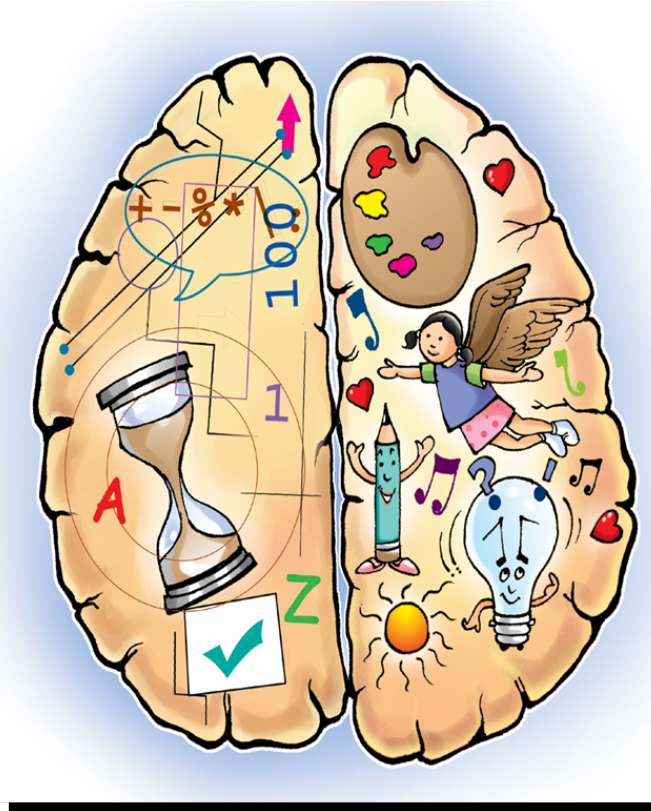
CALCULATIONS

LANGUAGE

CONVERGENT

LOGICAL THINKING

ANALYSIS



21st C Education Must Add This

COLOR

IMAGINATION

DAYDREAMING

RHYTHM

SPACE

IMAGES

CREATIVITY

VISUALIZATION

OVERALL THINKING

DIVERGENT

LATERAL THINKING

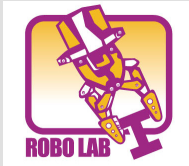



SYNTHESIS

The 21st Century Curriculum

- Requires three partners
 - Parents
 - Educators
 - Mentors
- Must stretch the whole brain
 - Not bias left or right side
 - Integrate knowledge and skills
- Built around Math and Language

Partner Roles

- **Parents**
 - Set Home Culture - High Expectations
 - Academic Environment
 - Reading Aloud
 - Good Nutrition
 - Monitor & Praise
- **Educators**
 - Set Class Culture - High Expectations
 - Provide materials, environment, knowledge for learning
 - Motivate and inspire learners
- **Mentors**
 - Apply skills to practical endeavors
 - Teamwork & Collaboration
 - Intentional creativity and innovation
 - Synthesize knowledge
 - Learning from failure

	1 st Grade (4)	2 nd Grade	3 rd Grade	4 th Grade
Curricular	-MATH Logical Reasoning Observation Colors Shapes Sequencing Pre-number concepts Number concepts Quantity Informal measurements Mapping exercises Extensity Mirror proj recognition Spatial awareness Symmetry - 3D Networking	-MATH Unilateral & Bi Substitute Minute Observation Skills Venn Diagram Geometric Solids Shape Combination Network Counting Summation Correspondent Counting Co-ordinate Derivation Perception of Space Factorization Comparison Shadow Geometry	-MATH Exercises with currency Addition Applied Addition & Subtraction Correspondent Counting Permutation & Combination Estimation Graphic Inference Subtraction Logic & Inference Two Way substitution Foundation of Multiplication Geometry Exercises in time	Math Intro to Science Country History Geography Intro to World History Intro to Latin
	LANGUAGES - English - Mandarin - Spanish - Arabic	LANGUAGES - English - Mandarin - Spanish - Arabic	LANGUAGES - English - Mandarin - Spanish - Arabic	LANGUAGES - English - Mandarin - Spanish - Arabic
Co-Curricular	Art Music Improv Physical Education	Art Music Improv Physical Education	Art Music Improv Physical Education	Art Music Drama Physical Education
				

	5 th Grade	6 th Grade	7 th Grade
Curricular	<p>Pre-Algebra Science Computer Programming</p> <p>Country History 2 World History Geography Basic Economics</p> <p>Latin English Grammar English Literature Mandarin Arabic Spanish</p>	<p>Algebra 1 Chemistry, Physics, Biology, Computer Programming</p> <p>Country History 3 World History Geography</p> <p>Latin English Grammar, English Literature, Mandarin Arabic Spanish</p>	<p>Geometry Chemistry Physics, Biology, Computer Programming</p> <p>Advanced Economics World History Geography</p> <p>Latin English Grammar, English Literature, Mandarin Arabic Spanish</p>
Co-Curricular	<p>Art – Creative Design Music Drama Physical Education</p> <div data-bbox="569 1107 743 1269"> </div> <div data-bbox="546 1302 768 1477"> </div>	<p>Art – Design Practicum Music Drama Leadership Physical Education</p> <div data-bbox="1043 1154 1236 1386"> </div>	<p>Rhetoric/Public Speaking Art Music Drama Physical Education</p> <p>Student clubs - Robotics - Chess - Web News - Computers & Technology - Environmental</p>

	8 th Grade	9 th Grade	10 th Grade	11 th Grade (16)
Curricular	Algebra 2 Chemistry, Physics, Biology, Computer Prog, World History, Critical Analysis & Writing English Literature Mandarin Arabic Spanish	Pre-calculus Chemistry, Physics, Biology, Computer Prog, Adv Writing English Literature Mandarin Arabic Spanish	Calculus, Intro to Statistics Chemistry, Physics, Biology Computer Prog, World Literature, AP History Imagineering 1 Mandarin Arabic Spanish	Statistics, Integrated Science – (physics, chem., biology) Computer Prog, World Literature, AP World History Imagineering 2 Mandarin Arabic Spanish
Co-Curricular	Art –Design Music Drama Leadership Skills Physical Education	Art – Design Music Drama Debate Competition Elocution Competition Physical Education	Business Plan Competition Physical Education Debate Writing Competition Language Competition	Science Project Competition Leadership Writing Competition Language Competition
Core Curriculum from BASIS Charter School, TUCSON AZ, USA				

Summary of 21st C Curriculum

- Lots of math, science and global languages
- No more French
- Creativity & Innovation as intentional skills
- Communication, teamwork and collaboration skills
- Leadership experiences
- Learn to be continuous learners for life