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- Brief about Singapore and features of education system as cultural context
- Historical perspective on educational developments and reforms
- Current reforms in the context of abilitydriven education
- Personal Observations/Reflections



SINGAPORE

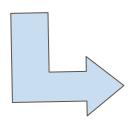
- Small country
- Multiracial and multicultural
- Meritocracy
- Some national concerns how to deal with competition from China, India and SEAsian neighbours; terrorism; globalisation.



Role of Education in Singapore



- Nation-building
- Economic Development
- Social Cohesion



Government Investment in Education

3.8% of GDP in 2003



Education System in Singapore



- English as the medium of instruction
- Common Curriculum for all schools
- Primary Education 6 years (178 pri schs)
- Secondary Education 4 years (165 sec schs)
- Pre-University Education 2 years (16JCs & 2 CIs)





BILINGUALISM

- Children learn English and learn their Mother-tongue language in school.
- Results of the policy: Effectively a bilingual society, after four decades of nationhood.
 - The 2000 census showed for the first time that a majority of the Singapore population is now literate in two or more languages (56% in 2000 compared to 45% in 1990).
 - Among Chinese youths (aged 15-24), 88% are literate in Mandarin and 98% in English.
- Refinements to mother-tongue policy (2004)





STREAMING

- Streaming occurs at P4. Streaming has been refined recently to remove EM1 and EM2 distinction. EM 3 remains.
- High stakes examinations
 - PSLE which streamed children into Special/Express/Normal Academic and Normal Technical Streams. More pressure on kids now to enter integrated programmes available in top secondary schools.
 - ➤ O level examinations entry to pre-university, polytechnics and Institute of Technical Education
 - ➤ A levels and Poly Diploma entry to 3 universities.



Three Phases of Educational Developments

■ Survival-Driven Education (1959 – 1978)

■ Efficiency-Driven Education (1979 – 1996)

■ Ability-Driven Education (from 1997)



Survival-Driven Education

- Response to Economic Survival
 - Mass Education with rapid rate of building of schools
 - Technical Bias in curriculum
- Response to national cohesion
 - 4 vernacular schools and hence need to unify standards
 - Schools under a national system with a common curriculum



Efficiency-Driven Education

- Ability streaming introduced
 - Streaming at P3 into normal, extended and monolingual (revised to P4 and renamed EM1,EM2, EM3; further revised in 2004 to remove EM1 and EM2 distinction)
 - Streaming at end of P6 into Special, Express and Normal Streams in secondary schools
- Curricular Changes
- School Management
 - Emphasis on school reform with schools given greater autonomy



Effects of Efficiency-Driven Education

- Reduction of educational wastage
- Uniformity and standardisation
- Narrow emphasis on academic achievement





"Thinking schools to be crucibles of questioning and searching, within and without the classroomand Singapore a Learning Nation that goes beyond schools.."

Prime Minister Goh Chok Tong International Conference on Thinking, 2 July 1997





KEY THRUSTS OF TSLN

- Emphasis on Critical and Creative Thinking
- Use of Information Technology in Education
- National Education (Citizenship Education)
- Administrative Excellence





THINKING SCHOOLS

- Fundamental review of curriculum
- Reduction of subject content
- Revision of assessment mode
- Greater emphasis on process instead of outcomes e.g. introduction of project work





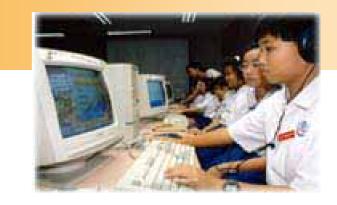
Project Work allows students to:



- Apply creative and critical thinking skills
- Foster collaborative learning skills
- Improve communication skills
- Develop self-directed inquiry and life-long learning skills.







Infusion of IT in Schools IT MasterPlan



- Teacher-Notebook Ratio 2:1
- Whole School Networking
- 30% of curriculum time to be IT-based





National Education

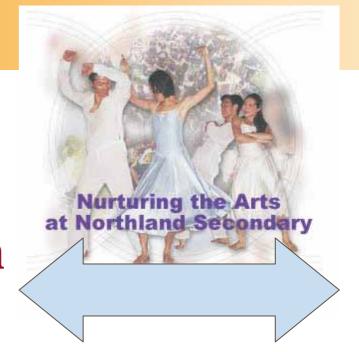


The objective is to develop national cohesion, the instinct for survival and confidence in the future by

- fostering a sense of identity, pride and self-respect as Singaporeans;
- knowing the Singapore story;
- understanding Singapore's unique challenges, constraints and vulnerabilites;
- instilling core values of our way of life.



TSLN heralds Ability-Driven Education

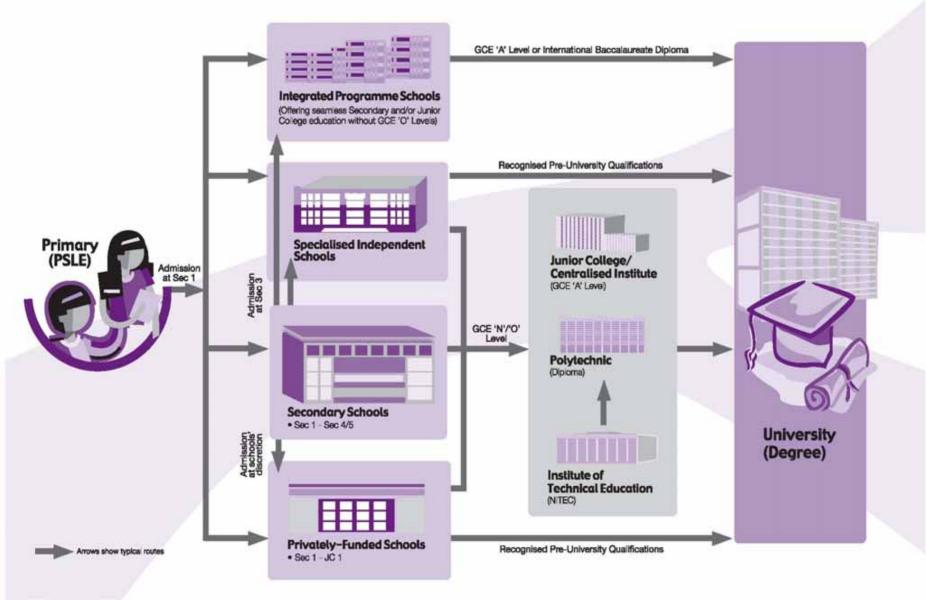


- Focus on developing the full spectrum of talents and abilities in each child through a mass customized approach to education
- Focus on holistic education with greater emphasis on character rather than imparting just knowledge and content.



KEY PRINCIPLES

Improving Quality Increasing Diversity Maintaining Access



The Education Landscape



CURRICULUM REFORMS

- Innovations in Pedagogy
 - Strategies for Effective Engagement and Development (SEED) & lower class size
 - Strategies for Active and Independent Learning (SAIL)
 - IT Innovations Digital Literacy
- Broadening of CCA framework (from 2004)
- Changes in assessment source-based questions; IB and NUS High school Diploma.
- Revised JC Curriculum K&I (in 2006)

qualitative





School Leaders and Teachers are the keys to success of education reforms

Quality



TEACHER ED REFORMS



- Review of Teacher & Educational Leadership Programmes
 - Foundation Programmes
 - Diploma in Departmental Management & Leaders in Education Programmes
- Professional Development of Teachers
- New Career Tracks; New Recognition Structure; Work Attachment Scheme; 3000 more teachers by 2010

CONNECT



My Observations & Reflections

- Pace of Reform & TeacherStress
- Experimentation & failure/School Ranking?
- Elitism & Equity/Ethnicity



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