NSS ICT Curriculum Management, Planning and Leadership (Refreshed) **Programme**

| Date: | 16 March 2011 | (Wednesday) |
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Time: 2:00 p.m. – 5:00 p.m.

Venue: Rm W301, 3/F., West Block, EDB Kowloon Tong Education Services Centre, 19 Suffolk Road, Kowloon Tong

Events

2:00 p.m. **Registration**

| 2:10 p.m. | Review on | Review on the Implementation of NSS ICT Curriculum | | | |
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| | Curriculu | Curriculum Management, Planning and Leadership – An Introduction | | | |
| | Speaker: Mr LUI Sze-ming, Atkin | | | | |
| | _ | Curriculum Development Officer (Technology Education), | | | |
| | | Curriculum Development Institute, Education Bureau | | | |

- 2:40 p.m. Experience Sharing (1) Speaker: Mr CHU Ka-tim TE KLA Coordinator & Computer Panel Head, Hong Kong True Light College
- 3:20 p.m. Break and Professional Exchange
- 3:45 p.m. **Experience Sharing (2)**

 Speaker:
 Mr CHEUNG Kin-sun, Jackson

 Member of CDC-HKEAA Committee on ICT (Senior Secondary)

 Vice Principal & Computer Panel Head, Ho Ngai College (Sponsored by Sik Sik Yuen)

4:30 p.m. Issues, Concerns and Strategies in Planning the NSS ICT Curriculum Concluding Remark

Speaker: Mr LUI Sze-ming, Atkin

4:45 p.m. Q&A Session





| Transferrer Learning Elements under Knowledge | The continuum of learning | |
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| Contexts in Technology Education | for students in ICT | |
| Common Topics Information & Communication Technology Materials & Structures Operations & Manufacturing Strategies & Manufacturing Systems Control Technology & Living Technology Structures Manufacturing | <u>Primary Junior Senior Post-secondary</u> <u>Level Secondary Level Secondary Level School Level</u> | |
| Stafety & Computer Networks Material Processing Production Processing Organization & Grandback Food Preparation & Grandback Information Processing & Programming Concepts Structures & Machanisms Project Marketing System Food Preparation & Grandback Design & Applications Programming Concepts Structures & Machanisms Project Marketing System Food Preparation & Grandback Design & Applications Consumer Design & Application of Concepts Structures & Machanisms Project Marketing Control & Grandback Food Preparation & Grandback Consumer Consumer Consumer Consumer Consumer Food Preparation & Grandback Food Preparation & Grandback Applications Concepts Structures & Machanisms Project Marketing Control & Grandback Food Preparation & Grandback Consumer Education Living Home & Grandback Food Preparation & Grandback Food Preparation & Grandback Viring Home & Grandback Food Preparation & Grandback Food Preparation & Grandback Food Preparation & Grandback Applications Project Marketing Marketing Control & Grandback Food Preparation & Grandback Marketing Food Preparation & Grandback Food Preparation & Grandbackk <td>Experiences of using IT as a tool to facilitate learning School-based curriculum T Learning Targets at Key Stage 3 Adapted from Information and Communication Technology Curriculum and Assessment Gilde (Scenomunication Technology Curriculum and Assessment Curriculum</td> | Experiences of using IT as a tool to facilitate learning School-based curriculum T Learning Targets at Key Stage 3 Adapted from Information and Communication Technology Curriculum and Assessment Gilde (Scenomunication Technology Curriculum and Assessment Curriculum | |
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| Planning (pp.69-70) | Planning (pp.69-70) | |
| Topics are not to be taught in isolation. Appropriate integration of curriculum areas is encouraged; Learning is not confined to time-tabled lessons. Schools should make use of learning opportunities beyond the classroom to maximise learning effectiveness; | Teachers are encouraged to work together as a team to plan the senior secondary ICT curriculum, to develop learning materials, activities and tasks, and to collaborate with teachers of other KLAs on cross-curricular projects; Teachers are encouraged to make flexible use of class time to facilitate learning (e.g. single periods for theoretical topics, and double or triple periods for practical tasks.); and | |
| 15 | 16 | |
| Guiding Principles in Curriculum Planning (pp.69-70) | Progression – Guiding Principle (p.70) | |
| Teachers are encouraged to make use of both formative assessment (e.g. portfolios and projects) and summative assessment to inform learning and teaching. | The senior secondary ICT curriculum is designed to enable students to explore their interests, potential and aspirations for further studies and careers. It is built upon students' prior knowledge and skills in their computer literacy studies from primary through junior secondary. To help students achieve the curriculum aims and objectives, schools should feel free to vary the organisation and teaching sequence of learning elements. | |
| 17 | 18 | |

| Progression – Consideration in devising school-based curriculum plan | Progression – Consideration in devising school-based curriculum plan | |
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| • Ceaching Space and Lesson Allocation • Multiple electives • Team teaching • (e.g. one teacher for compulsory part and one for elective part) • Metwork program" • Metwork program • Lesson time allocation for each year • SBA arrangement including mark submission schedule • 1 mock exam vs. 2 exams in S6 | Core and Elective modules teach the modules in the compulsory part prior to the option in the elective part teaching the option in the elective part immediately after the related module(s) in compulsory part is covered Alternative pathways Taster Year, New Pupil in S5 Acceleration (programme) - for gifted learners Subject drop-out (e.g. to ApL) "The knowledge and skills of ICT taught in S4 are transferable to other subjects even if students opt not to study ICT from S5 onwards." | |
| Curriculum Planning Strategies (pp.77-79) | Curriculum Management (pp.79-82) | |
| For students of different abilities and inclinations Making student learning more meaningful Designing authentic experiences Community service project Reading authentic materials Engaging in life-wide learning Visits to different IT organisations Participation in IT-oriented competitions | Areas of Work Understand the Curriculum and Learning Context Plan and Implement the Curriculum Evaluate the Curriculum Develop Resources Build Capacity Roles of Different School Personnel ICT Teachers TE KLA Co-ordinator / ICT Panel Chairperson School Head | |
| 21 | 22 | |
| Plan and Implement the Curriculum | Evaluate the Curriculum | |
| Design and implement schemes of work to help students achieve the curriculum aims and learning targets of the senior secondary ICT curriculum Design modes of assessment and tasks to promote assessment for learning | Review the senior secondary ICT curriculum and teaching and learning on a regular basis through collecting data from different sources, analysing student learning, and making adjustments whenever necessary. | |
| 23 | 24 | |
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| Roles of Different School Personnel | Roles - ICT Teachers |
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| Managing the ICT curriculum efficiently to promote effective learning and teaching requires a clear division of duties and collaboration among ICT teachers, TE KLA co-ordinator / ICT panel chairperson and the school head, who have different roles in the planning, development and implementation of the school-based ICT curriculum. | acquaint themselves fully with the structure, organisation and learning targets of the curriculum; help students to identify their specific area(s) of interest in ICT; explain clearly to students the overall aims, learning targets, and expectations of the school-based ICT curriculum; |
| 25 | 26 |
| Roles - ICT Teachers | Roles - ICT Teachers |
| foster an active learning environment for students, strengthen their skills in learning how to learn, and help to develop their full potential in learning ICT; initiate the sharing of teaching ideas, knowledge and experiences to foster peer collaboration, support and professional exchange to improve the learning and teaching of ICT; keep abreast of the latest developments in ICT curricula and innovations in ICT; and | participate actively in professional development courses, workshops, seminars, etc. to enhance professionalism. |
| 27 | 28 |
| Roles - TE KLA Co-ordinator / ICT Panel Chairperson | Roles - TE KLA Co-ordinator / ICT Panel Chairperson |
| set a clear direction and plan for its own school-based ICT curriculum; decide on which modules to offer in the Elective Part, taking into account students' needs, interests and prior knowledge in ICT, as well as teachers' strengths and practical constraints; collect and analyse evidence of students' learning to make informed decisions in curriculum planning and instruction; | monitor the implementation of the curriculum, and make appropriate adjustments in strategies for learning and teaching; and manage and use the learning and teaching resources, including hardware, software and computer rooms, systematically and effectively. |
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| Roles - School Head | Roles - School Head | | |
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| Understand students' needs, strengths and interests, as well as the significance of learning ICT in their whole-person development; Understand the strengths of teachers, and assist the TE KLA co-ordinator / ICT panel chairperson to deploy teachers flexibly to teach the Compulsory and Elective Parts of the curriculum; | Co-ordinate the work of KLA leaders and subject panels, and set clear targets in curriculum development and management; Provide support for trying out new initiatives in the learning and teaching of the ICT curriculum (e.g. flexible time- tabling to facilitate collaborative teaching and peer lesson observation among teachers; and flexible grouping of students for topics of different kinds); | | |
| 31 | 32 | | |
| Roles - School Head | Resource Support (p.69) | | |
| Convey a clear message to parents regarding the significance of ICT education; and Network with other schools to facilitate professional exchange of information and sharing of good practices. | Most TE KLA electives require equipment, software, storage, and material. In most schools, the existing facilities are considered adequate for offering the electives. Schools should focus on the interests, needs, and abilities of their students in planning their school-based curricula. Where schools anticipate problems associated with low enrolment, they may consider collaborating with other schools to form networked classes for the electives. | | |
| 33 | 34 | | |
| Emphases in the Second 5-year Plan (2007-2012) of Curriculum Reform | Reflective Questions | | |
| Enhance Assessment for Learning including: emphasising students' self-directed learning in order to help learners to understand how they learn and pave the way for life-long learning; adopting more flexible and diversified assessment methods to recognise the different potentials and abilities of students; providing appropriate and clear feedback; and allowing students' active participation in assessment activities and prompting them to adopt quality reflective thinking. | What is your school's assessment policy? What are the strengths and weaknesses of your school's assessment policy and practices? How would you change the school's assessment policy and practices in order to cater better for learning in the New Academic Structure and specific SS subjects? How are the assessment activities different at the SS level, when compared with the junior secondary level, in particular in stretching the potential of the students in your school? (SSCG 4.3.3) | | |
| 35 (SSCG 1.4.2) | 36 | | |
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| Aims and Expected Outcomes of Other Learning Experiences • on widen students' horizons, and to develop their life-long interests • on urture positive values and attitudes • on provide students with a broad and balanced curriculum with essential learning experiences alongside the core and pleater the five essential Chinese virtues, 'Ethics, Intellect, Physical Development, Social Skills and Aesthetics' (念、 <u>智、電、重、 • facilitate students' all-round development as life-long learners with a focus on sustainable capacities. The expected success include students • Decoming active, informed and responsible citizens; • becoming active plersty and positive work ethics. • adopting a healthy lifestyle; and • (SSCG 5A.3) </u> | <section-header><section-header><section-header><text></text></section-header></section-header></section-header> |
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| Areas of OLE | Suggested Expected Outcomes Community Service |
| Moral and Civic Education Community Service Career-related Experiences Aesthetic Development Physical Development | identify and reflect on various social issues / concerns encountered in Community Service experiences; develop positive attitudes (e.g. respect and caring for others, social responsibility) and related generic skills (e.g. collaboration) to prepare for future voluntary service involvement; and nurture life-long interest and habits in Community Service. |
| ³⁹ Suggested Expected Outcomes | ^₄ Content of Student Learning |
| Career-related Experiences enhance up-to-date knowledge about 'the world of work'; acquire knowledge related to employability, in order to encourage personal career planning and development; and reflect on work ethics, and employers' expectations in the current labour market. Any examples related to ICT curriculum? | Profile To serve as evidence of whole-person development, the content of an SLP may include brief information on: academic performance in school (other than results in the HKDSE Examination); Other Learning Experiences (OLE); performance/ awards gained outside school; and student's self-accounts (e.g. highlighting any impressive learning experiences or career goal setting). <i>Any examples related to ICT curriculum</i>? |

| Cate | ring for L | earner Di | versity | | | Curriculum planning level (7.3.1) |
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| 43 | riculum Gulde (CDC, 200 | <i>19)</i> | | | 44 | |
| Classroom learning and teaching level (7.3.2) | | | Classroom learning and teaching level (7.3.2) | | | |
| Gathering background information on students, including their interests, strengths and weaknesses Varying the level of difficulty and the content covered Varying questioning techniques and the amount and level of support provided, for example, providing additional support such as using mindmaps and diagrams to aid comprehension for less able students, asking open-ended questions with fewer hints for more able students, using concrete examples to illustrate concepts for less able students and symbolic language for the more able ones | | | • • • | Varying the teaching approach, such as using less challenging modes and content in assessment to provide the less able students with an opportunity to succeed Promoting independent learning and group learning to release teachers from the need to work with all students at the same time Being responsive to student performances and needs that may not be expected in the classroom and giving constructive feedback that helps learning Formulating a teaching plan for the whole class using core and extension resources for different student groups. | | |
| 45 | | | 46 | | | |
| Maze | e or Matri | x !? | | | | |
| | Curriculum | Pedagogy | Assessment | | | |
| Different Ability | | | | | | |
| Different Learning Style | | | | | | |
| Different Interest / Aptitude | | | | | | |
| 47 | | | | | | |