

## BYTE: Senior Years ICT Implementation Challenges and Solutions

The following tables represent a blending of comments made during the morning BYTE senior Years ICT Implementation Challenges and Solutions session and consultations with other MB educators and MECY staff):

**Stand Alone Model** (half-credit ICT options are timetabled separately/independently or may be combined to create full-credit courses)

<b>STAND-ALONE</b>	
<b>Challenges</b>	<b>Solutions</b>
<ul style="list-style-type: none"> <li>- honouring the inquiry process</li> <li>- requiring experts to teach...                             <ul style="list-style-type: none"> <li>o not enough experience</li> </ul> </li> <li>- offering variety                             <ul style="list-style-type: none"> <li>o timetabling problems</li> </ul> </li> <li>- consistency from school to school</li> <li>- lack of facilities (labs) and equipment</li> <li>- Possible for students to “avoid” technology throughout high school</li> <li>- low enrolments make offering of a class difficult if not impossible</li> </ul>	<ul style="list-style-type: none"> <li>- deliberate planning (with Inquiry in mind)                             <ul style="list-style-type: none"> <li>o the framework supports the inquiry process</li> <li>o guiding learning process</li> </ul> </li> <li>- teacher PD/Team Teaching/Modeling</li> <li>- scheduled Prep time</li> <li>- e-learning</li> <li>- flexible timetabling (ex Balanced School Day)</li> <li>- look at the outcomes!</li> <li>- get rid of the labs</li> <li>- continue to do both</li> <li>- courage!</li> </ul>

**Complementary Model** (two or more implementing teachers co-plan inquiry and/or project-based learning experiences for individual learners or small groups of common learners OR a teacher responsible for half credit option(s) and other content area curricula, plans for learning experiences which combine outcomes and expectations from both ICT and non-ICT curricula)

<b>COMPLEMENTARY Model</b>	
<b>Challenges</b>	<b>Solutions</b>
<ul style="list-style-type: none"> <li>- scheduling issues</li> <li>- timetabling                             <ul style="list-style-type: none"> <li>o for staff &amp; students</li> </ul> </li> <li>- credit challenge (getting a full number of credits)</li> <li>- available resources/technology</li> <li>- staffing issues (expertise)</li> <li>- getting ownership for ICT in subjects</li> <li>- common prep/planning time (instruction &amp; assessment)</li> <li>- issues of requiring students to use technology</li> <li>- too much work for kids for an extra ½ credit time!</li> </ul>	<ul style="list-style-type: none"> <li>- increased PD opportunities                             <ul style="list-style-type: none"> <li>o i.e., Tech college</li> <li>o provide personal ICT to teachers</li> </ul> </li> <li>- schedule team teaching                             <ul style="list-style-type: none"> <li>o Common prep time</li> <li>o 2 people/same time</li> </ul> </li> <li>- one floater staff position in technology</li> <li>- create <i>mentors</i> and <i>teams</i> of teachers                             <ul style="list-style-type: none"> <li>o PD to focus on learning</li> <li>o Mentors to help teachers/students (individual) &amp; teachers (class)</li> </ul> </li> <li>- cows (computers on wheels)</li> <li>- increase attention to general learning outcomes</li> <li>- coordinated school planning and timetabling</li> </ul>

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**Integrated Model** (students and teachers target and achieve ICT learning outcomes in the context of other content area curricula)

<b>INTEGRATED Model</b>	
<b>Challenges</b>	<b>Solutions</b>
<ul style="list-style-type: none"> <li>- can seem overwhelming</li> <li>- perception of adding more outcomes</li> <li>- access to resources</li> <li>- assessment strategies</li> <li>- student timetabling</li> <li>- staffing cost               <ul style="list-style-type: none"> <li>o redundant roles</li> </ul> </li> <li>- why are we offering these 1/2 credit courses when they can be infused!</li> <li>- evolution of technology – always changing</li> <li>- new framework outcomes are vague/weak...students may become less computer/tech. literate</li> <li>- costs of providing access to technology</li> </ul>	<ul style="list-style-type: none"> <li>- make these courses optional</li> <li>- students bring own technology</li> <li>- make technology available at lunch or off-time</li> <li>- increase flexibility with tech. labs/teacher flexibility</li> <li>- communication</li> <li>- outcomes-based so it shouldn't really matter?</li> <li>- PD – planned integrated for all subjects</li> <li>- time continue K-8 process K-12</li> <li>- money</li> <li>- leadership</li> </ul>