A TELE COLLABORATION PROJECT TO SURVEY ON INTERNET USAGE TREND AMONG SECONDARY STUDENTS
Subject: English, ICT, Mathematics
Grade Level: Lower Secondary, Upper Secondary and Pre-U
Duration: April 2011-September 2011
This survey was done to find out the internet usage trend in a Malaysian rural secondary school.
OBJECTIVES OF PROJECT:

- To identify the internet usage trend amongst rural secondary school students.
- To do a comparison on the internet usage trend between the rural and urban secondary school.
- To create awareness for teachers on web tools and resources available for the teaching and learning process { via a collaboration with USM- UNESCO ICT Resource Centre }
- To create students centred teaching and learning process.
This research was conducted in a rural secondary school in Malaysia. It was observed that students rather spend time in cyber cafes using the internet than in classrooms learning with teachers.

Hence, a study was done in three stages:
STAGE I

- A survey was done to find out the internet usage trend amongst secondary students in the rural school. The data collected was shared and compared with a similar survey done in an urban secondary school.

STAGE II

- A workshop was carried out for teachers on web tools and resources for teaching and learning in collaboration with the USM-UNESCO ICT Resource Centre.
- Monitoring was done on the trend of ICT integration in classroom after the capacity building workshop.

STAGE III

- A questionnaire was distributed to both teachers and students to find out teachers use of classroom ICT integration and students internet usage trend.
TEAM STRUCTURE & RESPONSIBILITIES

Saravana Sundari
( Project manager )

Visva Arumugam
( facilitator )
Group 1
Lower Secondary Students

Syariffol Adzuan
( facilitator )
Group 2
( Upper Secondary Students)

Roziah Mohd Zahir
( facilitator )
Group 3
( Pre - U Students )

Mohd Hanif Abdullah
( wiki facilitator)
PROJECT EXECUTION AND OUTPUT
**METHODOLOGY OF STAGE I**

An online survey was carried out on internet usage trend. The survey was divided into three sections:

i. Using internet to source for information

ii. Using Internet to play games

iii. Using Internet for social networking
About 35 students in the rural school used internet to source for information for their school work. 28 students used it for social networking and 27 students played games online. Upon comparison, the same trend was seen with the urban school. The survey results are as depicted below:
Internet Usage Trend in Rural School and Urban School

Percentage

RURAL

URBAN

Trend

GAMES
SOCIAL NETWORKING
SOURCING INFORMATION
Average Hours Spend Online By Rural and Urban School

- **GAMES**
- **SOCIAL NETWORKING**
- **SOURCING INFORMATION**

<table>
<thead>
<tr>
<th></th>
<th>Rural School</th>
<th>Urban School</th>
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<tbody>
<tr>
<td>GAMES</td>
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<td>4.0</td>
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<tr>
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</tr>
<tr>
<td>SOURCING INFORMATION</td>
<td>3.5</td>
<td>4.0</td>
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</table>
A newsletter was created and designed by the Pre-U students.

It was published in September 2011.
**IN STAGE II: CAPACITY BUILDING**

**METHODOLOGY OF STAGE II**

A workshop was conducted for the teachers in the rural school. The workshop was facilitated by USM-UNESCO ICT Resource Centre.

Materials for the workshop were provided by the ICT Resource Centre namely:

- ICT in Education - Teacher Training Series 1
  *FREE SOFTWARE FOR EDUCATORS*
- ICT in Education - Teacher Training Series 3
  *WEB TOOLS FOR EDUCATORS*
A survey was carried out. Teachers found that the materials provided were useful and user friendly.

From the survey it was also discovered that teachers were keen to use ICT provided there is assistance at hand should they need it.
Immediate action by the rural school management on issues such as:
- Ensuring all the computers in the computer labs in good condition
- Upgraded the wireless coverage in school
- Encourage teachers to attend ICT in house Training
METHODOLOGY OF STAGE III

A questionnaire was given to both teachers and students to find teachers’ use of ICT in their teaching and learning process and the effect of ICT integrated teaching approaches on student learning. This was carried out six weeks after capacity workshop.
FINDINGS OF STAGE III

Feedback from Students

<table>
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<th>Category</th>
<th>Value</th>
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<tr>
<td>MOTIVATION</td>
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<tr>
<td>INTEREST</td>
<td>70</td>
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<tr>
<td>ACHIVEMENT</td>
<td>60</td>
</tr>
<tr>
<td>CLASSROOM INTEGRATION</td>
<td>70</td>
</tr>
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</table>
FINDINGS OF STAGE III

Feedback from Teachers

- Motivation
- Interest
- Frequency of ICT Use

[Bar chart showing feedback levels for teachers]
Output of this stage as below:

- A more interactive teaching and learning process
- Learning has become fun
- A total change in the learning environment
- Higher order thinking skills [HOTS]
- Interactive learning using ICT
ADVANTAGES

Teachers developed 21st century skills

Learning environment become more fun

Independent learning taking place
Getting students started

Financial woes
In Stage I, it was found that students in both the rural and the urban schools used internet to source information.

Capacity building was carried out in stage II. From this research it is obvious that teachers were motivated to use ICT in their teaching and learning process after the above-said workshop.
Conclusion

- From the feedback in stage III, results showed that students use the internet to search information and this has brought about higher order thinking skills. They found that learning is now fun compared to before ICT integration in their classrooms. Teacher’s level of motivation to use ICT tools in teaching and learning process had also increased.
- This research has also brought about an agreement by the school management to introduce a wider wireless internet connection.
It is recommended that the Ministry of Education Malaysia work together with USM-UNESCO Bangkok ICT Resource Centre in order to integrate ICT in the teaching and learning process.

Apart from that, it is also suggested that the State Education Departments create opportunities for teachers to undergo ICT Integration workshops through in house training.
UNESCO MATERIALS
UNESCO MATERIALS

FREE SOFTWARE FOR EDUCATORS

UNIVERSITI SAINS MALAYSIA
TEACHER USING ICT TOOLS
PRE-U STUDENTS IN COMPUTER LAB

Creating Newsletter
WIKI SPACES WORKSHOP
WORKSHOP FOR TEACHERS
Creating mind map during teaching and learning.
THANK YOU