CONCEPT MAPPING:
A VISUAL TEACHING AND LEARNING TOOL IN THE CLASSROOM

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Business Studies Department
NTID Scholarship Symposium
January 21, 2016
I’m not much for this self-made person rule. All of us had somebody to help us.”
RIT COMMENCEMENT SPEAKER (MAY 2010)
ACKNOWLEDGEMENTS
CONCEPT MAPPING: A VISUAL TEACHING AND LEARNING TOOL IN THE CLASSROOM

- Who?
- What?
- When?
- Where?
- Why?

Mike Kane
Workshop Presentation
January 21, 2016
SDC-1300
NTID Scholarship Symposium
CONCEPT-MAPPING RESOURCE

LEARNING HOW TO LEARN

Joseph D. Novak
D. Bob Gowin
DEFINITION

“visual representations of meaningful relationships between concepts”

REFERENCE

GENERIC SOFTWARE
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GENERIC SOFTWARE
CONCEPT MAPPING SOFTWARE
Organizing an Event

1. Planning
   - 1.1 Team
   - 1.2 Dates
   - 1.3 Budget
   - 1.4 Agenda
   - 1.5 Participants

2. Arrange venue
   - 2.1 Accommodation
   - 2.2 Travel

3. Support Materials

4. Invitations
   - 4.1 Speakers
   - 4.2 Participants

5. Facilities
   - 5.1 Catering
   - 5.2 Equipment
Inspiration

$27.96 per individual user license

Need to buy directly from vendor

Easy to use but “more” work to use

MindView

$379 per individual user license

Available via RIT Information & Technology Services’ campus-wide license

Easy to use, also
User-friendly

Students prefer this software

www.inspiration.com

User-friendly, too, but more “rigid”

More professional-looking

www.matchware.com
STUDENT-GENERATED: METHODS

METHODS MEASURING SEMI-VARIABLE COSTS

High-Low Method
- a method used to isolate the fixed and variable elements of a semi variable cost: involves comparison of a high volume and its related cost with a low volume and its related cost to determine the variable amount per units and fixed element

Scatter graph method
- a method used to isolate the fixed and variable elements of a semi variable cost: involves comparison of a high volume and its related cost with a low volume and its related cost to determine the variable amount per units and fixed element

Least-squared regression method
- the technique used to determine mathematically a line of best fit through a set of plotted points

Observation Method
- a technique used to be classify a semi valuable cost as either fixed or variable; involves examination and analysis of past relationships between the expense and production volume, based on the observed pattern of cost behavior, a decision is made to classify the expense as either a fixed or variable cost, depending on which it more closely resemble

Zainab Ajaz
March 18, 2015
STUDENT-GENERATED: SERVICE DEPARTMENTS

Angela Paz
Chapter 4
Inspiration

Service Departments

an essential part of the organization, but it does not work directly on the product. (191,192)

Service department costs to production departments requires an analysis of the service department's relationship to the other production and service departments before an appointment can be made.

7 examples of service department & basis for distribution

- Building Maintenance: Floor space occupied by other departments
- Inception and Packing: Production volume in each department
- Machine Shop: Value of machinery and equipment in each department
- Human Resources: Number of workers in departments served
- Purchasing: Number purchase orders originating in department
- Shipping: Quantity and weight of items shipped from department
- Store Room: Units of materials requisitioned by department
TEACHER-GENERATED: LECTURE GUIDE

PAYROLL REVIEW

NUMBER OF PAYROLL PERIODS

TYPES OF PAY
- Regular
- Overtime
- Double Time

TAXES

CALCULATION OF PAYROLL
- Gross Pay
- Taxes/Deductions
- Net Pay
Reminder: Use negative sign to avoid negative result

When appropriate, divide by 12 or multiply by 12

Utilize the Fx status bar to open dialogue box

=PMT FUNCTION

RATE  PERIODS  LOAN AMOUNT
MANUFACTURER INCURS $13,000 DIRECT LABOR ON 4/15/2015
TEACHER-GENERATED: TOPIC GUIDE

FORMULAS

RELATIVE VALUES

"FLEXIBLE"
EXAMPLE: B4

"PERMANENT"
EXAMPLE: $B$4

ABSOLUTE VALUES

HOW? F4 KEY
TEACHER-GENERATED: GUIDELINE

Go to summary/consolidated tab and go to specific "blank" cell

Insert appropriate auto-function

Go to first tab and click onto the "same" blank cell

Click onto SHIFT key and HOLD it

Go to last tab and click onto the "same" blank cell (if necessary)

Click onto "CHECK-MARK" symbol on the top

3-D response on the summary tab will appear
TYPES OF FINANCIAL ANALYSIS

- Type #1
- Type #2
- Type #3
- Type #4
- Type #5
I will talk about FOH - factory overhead. That is the third manufacturing cost.
RECOMMENDED PRACTICES

Take advantage of concept-mapping software

An ideal concept map contains one or two main topics

Allow space for student to write notes on the maps

Color – an important visual learning feature

Insert meaningful images in the maps for visual impact
INSTRUCTOR OBSERVATIONS

Opportunity to develop new course materials – fulfills many pedagogical purposes

Teacher-generated versus student-generated

The more simple the map is, the better

Promotes active learning among students

Students via surveys want to use concept maps for their other classes
MYTHS DISPELLED ... 

Concept maps are difficult to create ... NOT

Only one “right” way of making concept maps ... NOT

Only teachers can create concept maps ... NOT

Concept maps are for only science classes ... NOT
THANK YOU FOR YOUR PARTICIPATION!

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ANY QUESTIONS?