Designing and Facilitating ICT-Supported Tasks

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Digital English 2015
17 May 2015
Golden Tulip, Sfax

TO DESIGN INSTRUCTION WITH ICT

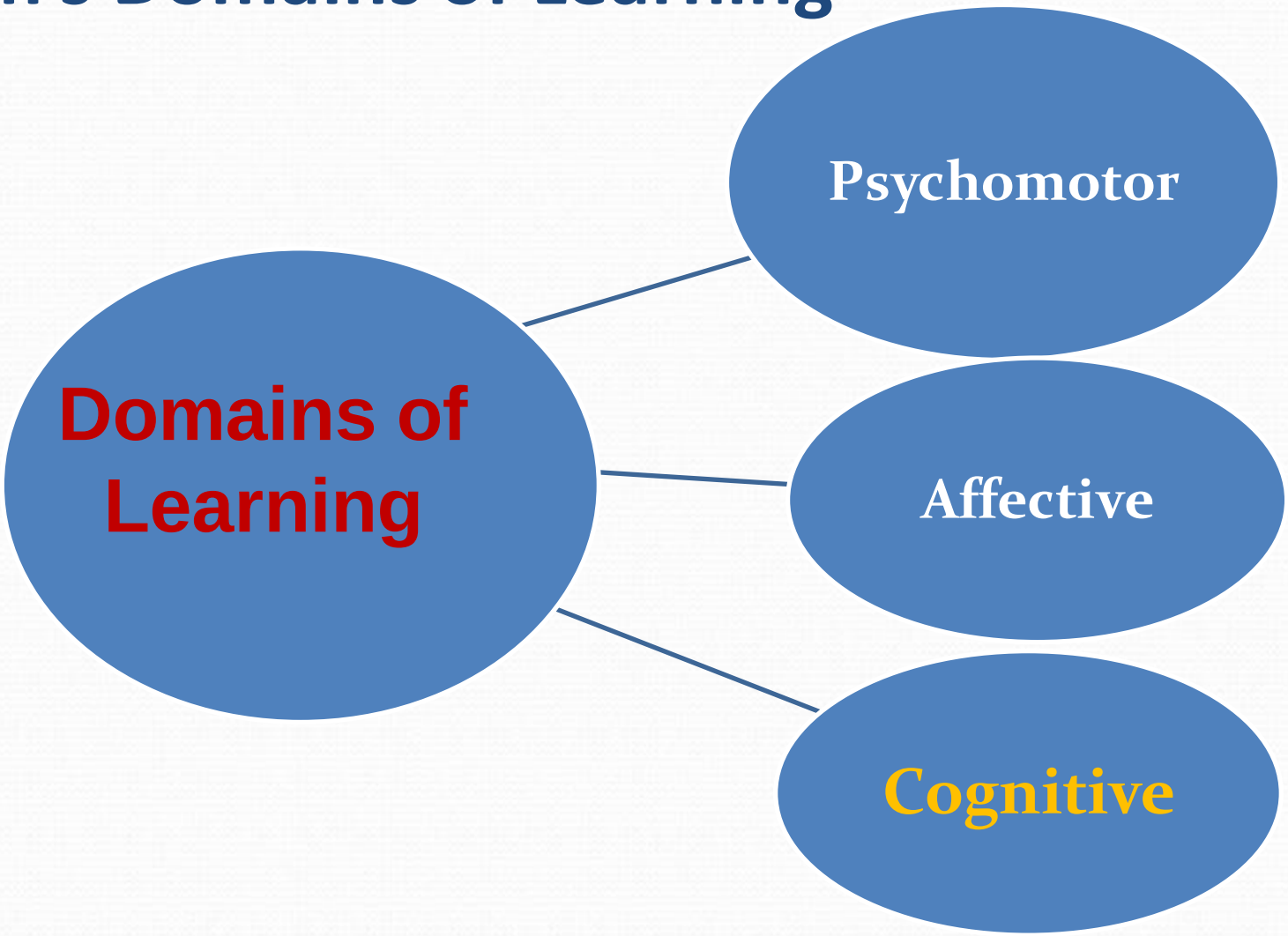
- Objectives according to a framework (orientation)
- Selection of skills/subskills/content/activities (possibilities)
- Deciding what activities help translate objectives (options)
- What ICT tool(s) can be match to the objectives and actions (integration)
- How to measure level of « sucess » (evaluation)

Educational Objectives: Societal and Individual

« Modern societies no longer can content themselves with the selection of talents, they must find the means for developing talent. »

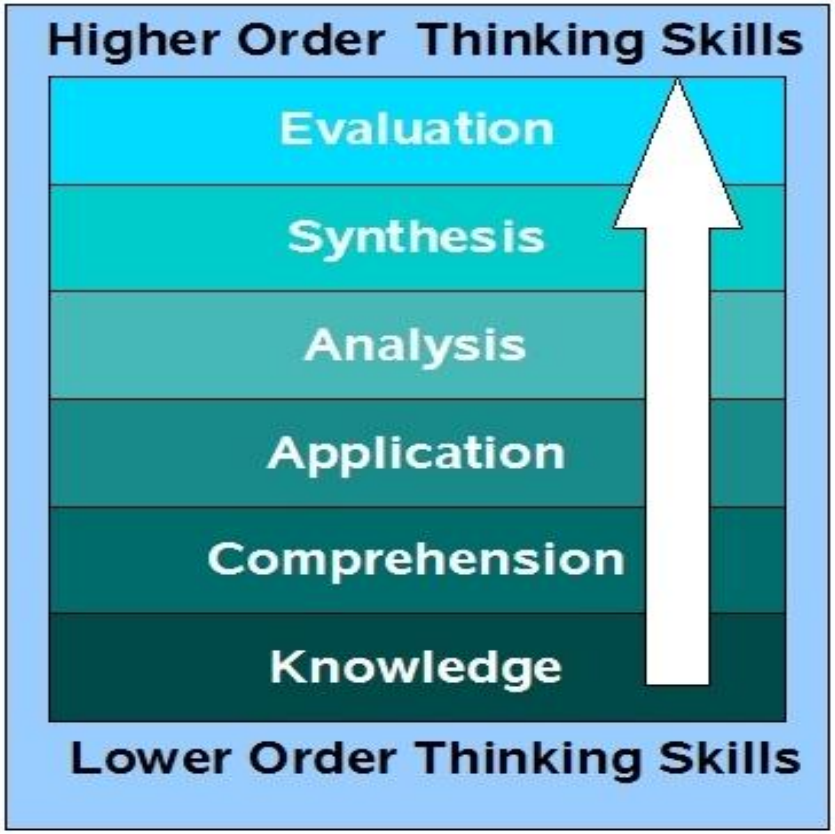
Developing Talent in Young Modern Societies, 1985, p. 17.

Bloom's Domains of Learning

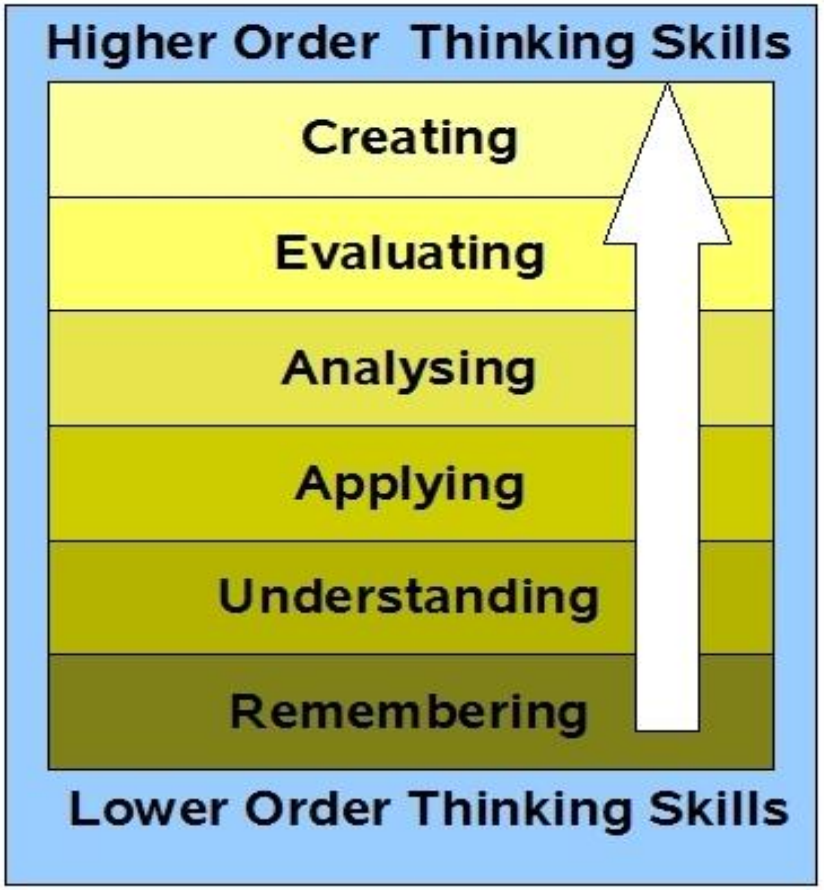


Bloom's Taxonomy of Educational Objectives

Original Taxonomy



Revised Taxonomy



Action Learning (Krathwoll & Anderson, 2001)

Lower Order Thinking Skills (LOTS)

- **Remembering** - *Recognising, listing, describing, identifying, retrieving, naming, locating, finding*
- **Understanding** - *Interpreting, Summarising, inferring, paraphrasing, classifying, comparing, explaining, exemplifying*
- **Applying** - *Implementing, carrying out, using, executing*
- **Analysing** - *Comparing, organising, deconstructing, Attributing, outlining, finding, structuring, integrating*
- **Evaluating** - *Checking, hypothesising, critiquing, Experimenting, judging, testing, Detecting, Monitoring*
- **Creating** - *designing, constructing, planning, producing, inventing, devising, making*

Higher Order Thinking Skills (HOTS)

Need to Connect with 21st C. Skills

UNESCO'S four pillars of education (http://www.unesco.org/delors/fourpil.htm)

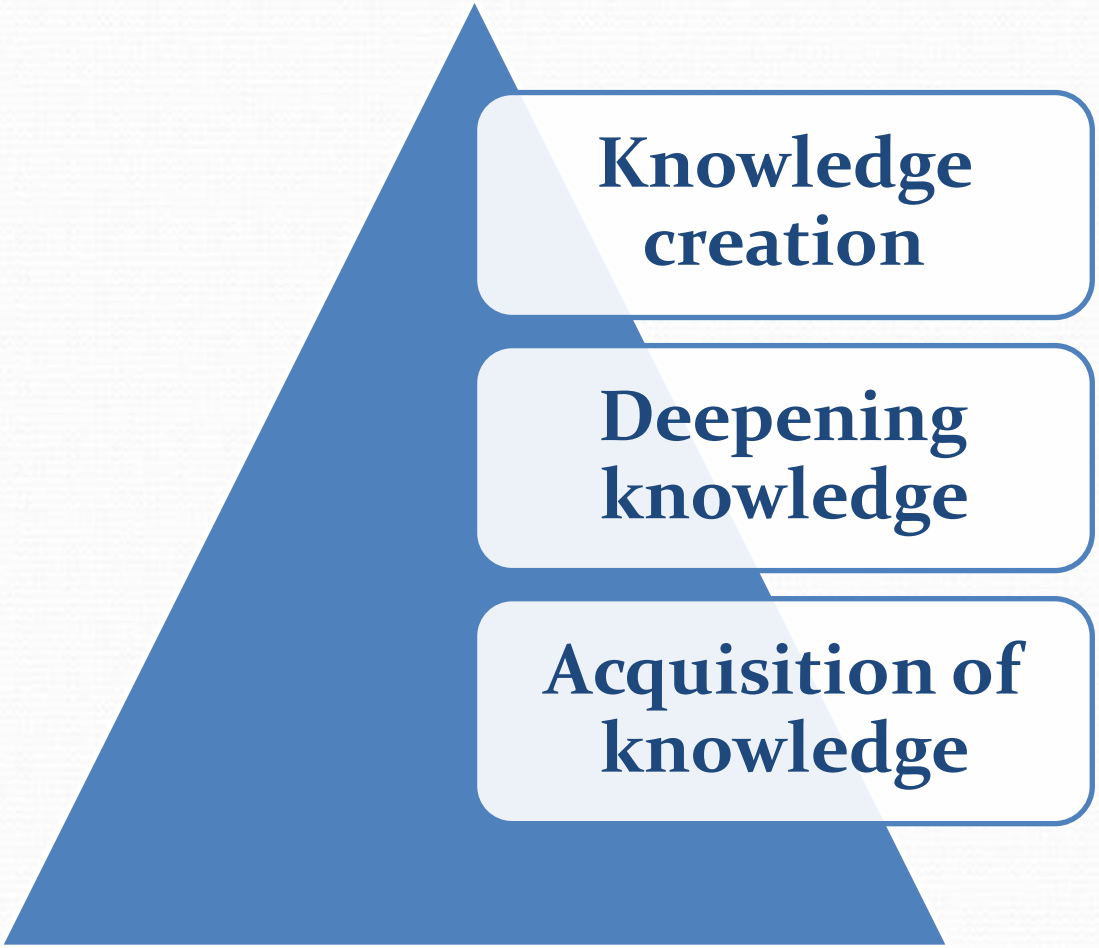
Learning *to know*

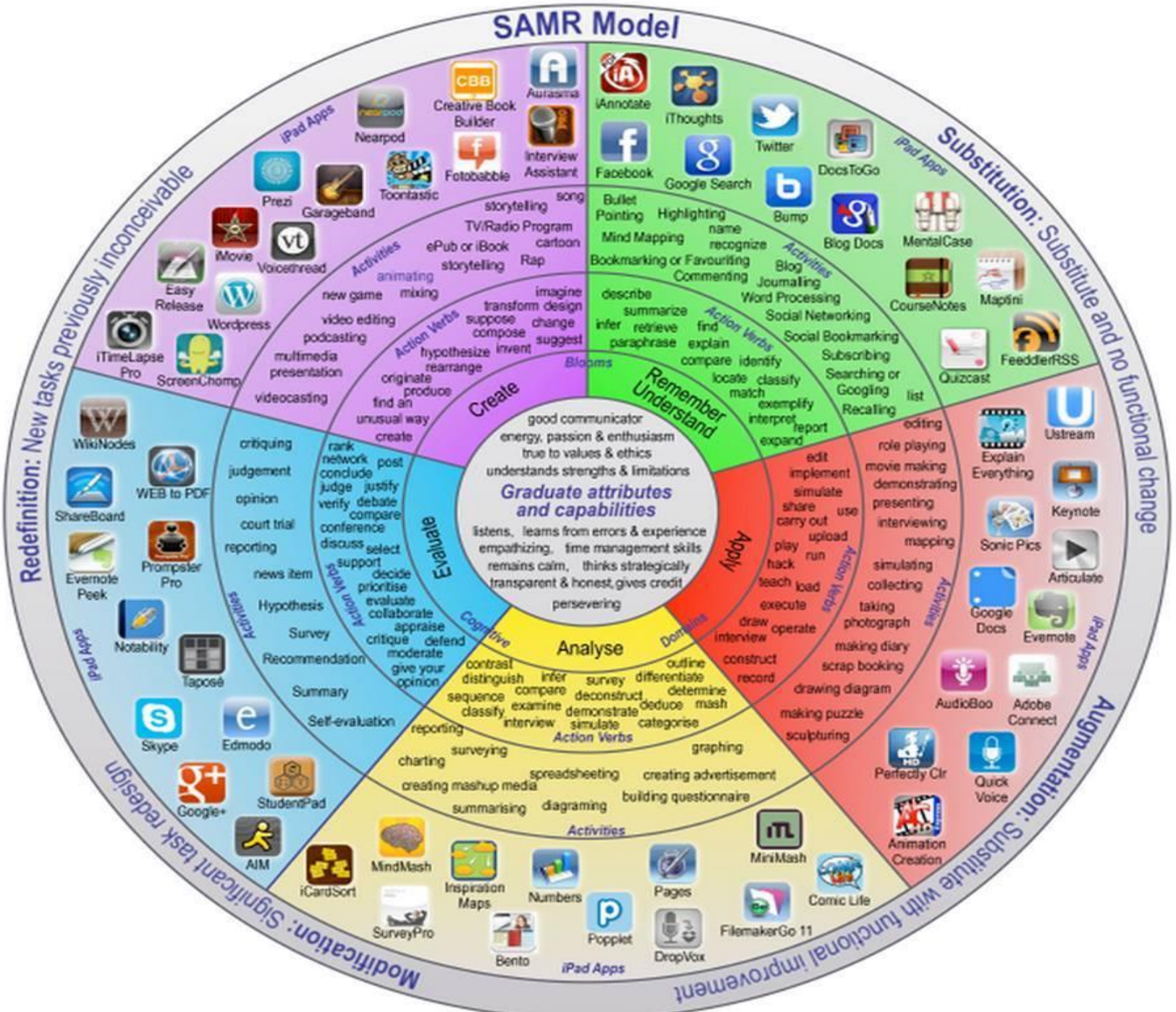
Learning *to do*

Learning *to live together*

Learning *to be*

The Transformative Power of Digital Tools




SAMR Model
Redefinition: New tasks previously inconceivable
Substitution: Substitute and no functional change
Augmentation: Substitute with functional improvement
Modification: Significant task redesign
Create
Remember Understand
Apply
Analyse
Evaluate
Blooms
Cognitive
Domains
Activities
Action Verbs
good communicator
energy, passion & enthusiasm
true to values & ethics
understands strengths & limitations
Graduate attributes and capabilities
listens, learns from errors & experience
empathizing, time management skills
remains calm, thinks strategically
transparent & honest, gives credit
persevering
iPad Apps
Creative Book Builder
Aurasma
Nearpod
Interview Assistant
Fotobabble
Toontastic
Prezi
Garageband
iMovie
Voicethread
Easy Release
Wordpress
iTimeLapse Pro
ScreenChomp
iAnnotate
iThoughts
Twitter
DocsToGo
Facebook
Google Search
Bump
Blog Docs
MentalCase
CourseNotes
Maptini
Quizcast
FeeddlerRSS
Ustream
Explain Everything
Keynote
Sonic Pics
Articulate
Google Docs
Evernote
AudioBoo
Adobe Connect
Perfectly Clr
Quick Voice
Animation Creation
WikiNodes
WEB to PDF
ShareBoard
Prompster Pro
Evernote Peek
Notability
Taposé
Skype
Edmodo
Google+
StudentPad
AIM
iCardSort
MindMash
Inspiration Maps
Numbers
Pages
MiniMash
Comic Life
SurveyPro
Bento
Popplet
DropVox
FilemakerGo 11
storytelling
song
TV/Radio Program
ePub or iBook
cartoon
storytelling
Rap
animating
new game
mixing
video editing
podcasting
multimedia
presentation
videocasting
imagine
transform
design
suppose
change
compose
suggest
invent
hypothesize
rearrange
originate
produce
find an
unusual way
create
Bullet Pointing
Highlighting
Mind Mapping
name
recognize
Bookmarking or Favouriting
Commenting
Blog
Journalling
Word Processing
Social Networking
Social Bookmarking
Subscribing
Searching or Googling
Recalling
list
describe
summarize
infer
retrieve
find
paraphrase
explain
compare
identify
locate
classify
match
exemplify
interpret
report
expand
editing
role playing
movie making
demonstrating
presenting
interviewing
mapping
simulating
collecting
taking
photograph
making diary
scrap booking
drawing diagram
making puzzle
sculpturing
edit
implement
simulate
share
use
carry out
upload
play
run
hack
teach
load
execute
draw
operate
interview
construct
record
critiquing
judgement
opinion
court trial
reporting
news item
Hypothesis
Survey
Recommendation
Summary
Self-evaluation
rank
network
post
conclude
judge
justify
verify
debate
compare
conference
discuss
select
support
decide
prioritise
evaluate
collaborate
appraise
critique
defend
moderate
give your opinion
contrast
distinguish
infer
survey
outline
differentiate
sequence
compare
deconstruct
determine
classify
examine
demonstrate
deduce
mash
interview
simulate
categorise
reporting
surveying
graphing
charting
spreadsheeting
creating advertisement
creating mashup media
building questionnaire
summarising
diagraming

What Tasks?

- Example 1: A web quest (what categories are involved?)
- Example 2: Googling a personality (What combination of categories?)
- Example 3: Recording a 50 second webcast (what skills and combinations)
- Example 4: Create in a group a multimedia presentation on the theme of the Seven Wonders of the World (What performance criteria will help cover Bloom's Revised Categories)

Thank you for taking part in this workshop