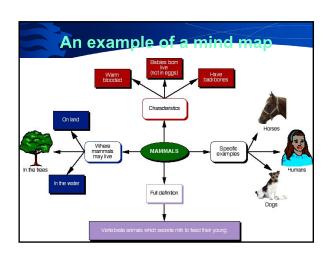


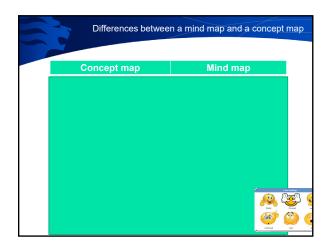
It is a pictorial presentation of the relationships of ideas related to a concept only.

Every node of a mind map does not have to be a concept.

It does not need to label the link between two ideas or objects.

It is like a visual representation of a thinking process that lets learners quickly generate an large number of ideas





Learning from existing concept maps

 Study and understand why
 Compare

 Learning by creating new concept maps

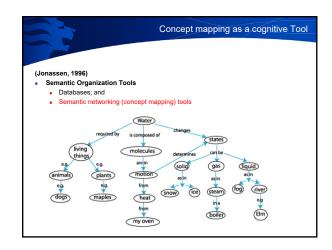
 Think, reflect
 Critical thinking

Drawing a map by hands is tedious and sometimes cognitively unproductive.
 Use of a technology tool can help to reduce such problems and allow a learner to focus his/her cognition more on essential tasks.
 Ease of restructuring, adaptation, conversion, storage

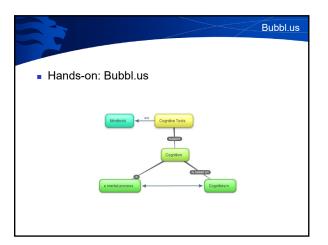
Using concept mapping as cognitive tools

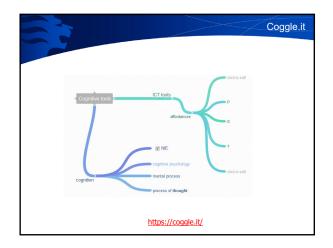
Computer-based tools and learning environments that have been adapted or developed to function as intellectual partners with the learner in order to engage and facilitate critical thinking and higher-order learning" (Jonassen, 1996)

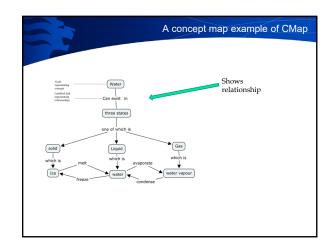
Cognitive tools are (Jonassen, 2000):
Cognitive amplification and reorganization tools
exceed the limitations of the human mind by doing things more accurately and at a higher speed.
Generalizable tools
Can be used in many settings, not specific to a purpose
Critical thinking devices
Erable learners to think, make connections, and create new knowledge
Intellectual partners
Assume part of intellectual burden: suggestion, advice
Become interdependent
Allow for hypothesis testing, answering what-if

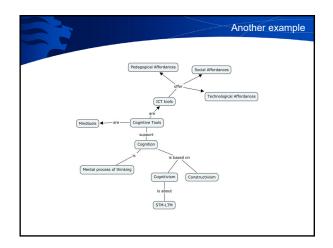


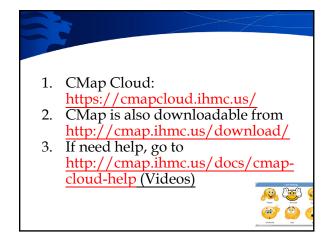
Concepts should be brief and placed in boxes (not sentences)
 Label relationships between concepts through links
 Hierarchy of components are clear
 Relationships between components are comprehensible

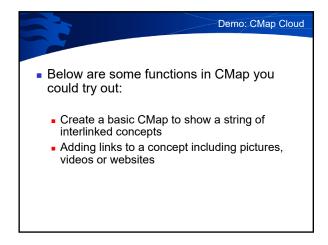


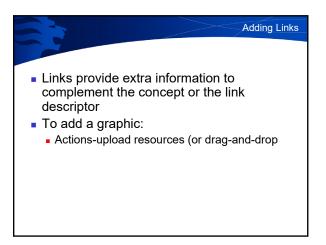




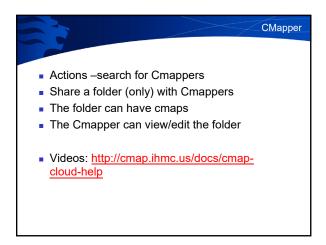




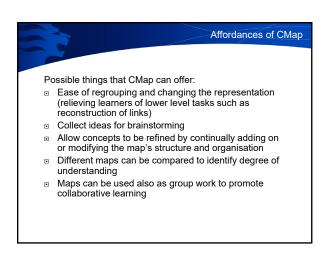




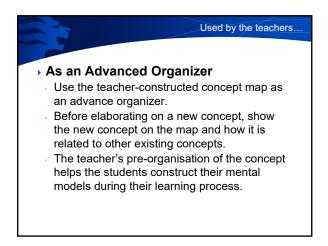


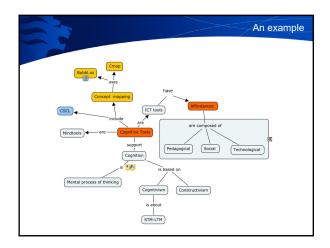


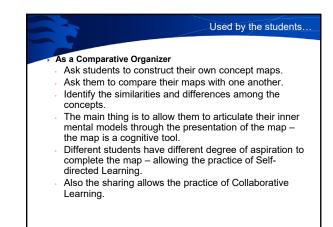
Use Cmap Cloud to construct a concept map depicting a concept that you plan to teach Work in groups (with online participants)



A CMap may be used by both the teachers and students to serve different purposes.







A concept is a mental construct that has 3 attributes A concept map is a visual representation of the relationship among concepts A main difference between a mind map and a concept map is that the former does not need to label the links between concepts and is used for capturing relationship of ideas pictorially. There are still other differences between a mind map and a concept map.

