



BRITISH COLLEGE OF BUSINESS

We will open the world of knowledge for you!

Unit 3: Theories, Principles and Models in Education & Training

British College of Business

Twenty years from now you will be more disappointed by the things that you didn't do than by the ones you did do.



Purpose and aim(s) of the unit

The purpose of the unit is to provide the learner with knowledge and understanding of theories, principles and models applied to education and training. It includes application of theories, principles and models of learning, communication and assessment in education and training, the application of theories and models of curriculum development within own area of specialism, and the application of theories and models of reflection and evaluation to the evaluation of own practice.

Details of the relationship between the unit and relevant national occupational standards or other professional standards or curricula (if appropriate)

This unit is underpinned by the overarching professional standards for teachers, tutors and trainers in the lifelong learning sector.



Module Learning Outcomes

Learning outcomes	Assessment criteria
The learner will	The learner can
1. Understand the application of theories, principles and models of learning in education and training.	1.1 Analyse theories, principles and models of learning. 1.2 Explain ways in which theories, principles and models of learning can be applied to teaching, learning and assessment. 1.3 Analyse models of learning preferences. 1.4 Explain how identifying and taking account of learners' individual learning preferences enables inclusive teaching, learning and assessment.
2. Understand the application of theories, principles and models of communication in education and training.	2.1 Analyse theories, principles and models of communication. 2.2 Explain ways in which theories, principles and models of communication can be applied to teaching, learning and assessment.
3. Understand the application of theories, principles and models of assessment in education and training.	3.1 Analyse theories, principles and models of assessment. 3.2 Explain ways in which theories, principles and models of assessment can be applied in assessing learning.



Module Learning Outcomes continued.....

Learning outcomes	Assessment criteria
The learner will	The learner can
<p>4. Understand the application of theories and models of curriculum development within own area of specialism.</p>	<p>4.1 Analyse theories and models of curriculum development. 4.2 Explain ways in which theories and models of curriculum development can be applied in developing curricula in own area of specialism.</p>
<p>5. Understand the application of theories and models of reflection and evaluation to reviewing own practice.</p>	<p>5.1 Analyse theories and models of reflection and evaluation. 5.2 Explain ways in which theories and models of reflection and evaluation can be applied to reviewing own practice.</p>



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ACTIVITY

Discuss:

- What is Learning
- What do we mean by a theory of learning



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ACTIVITY

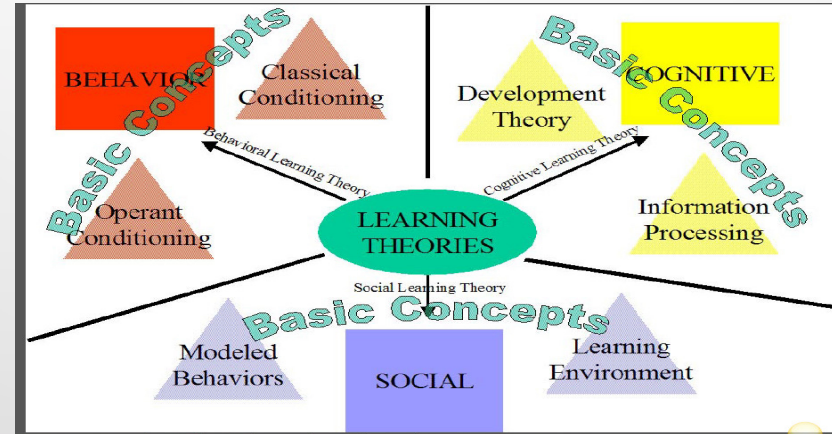
Video

Learning

(Video 1)



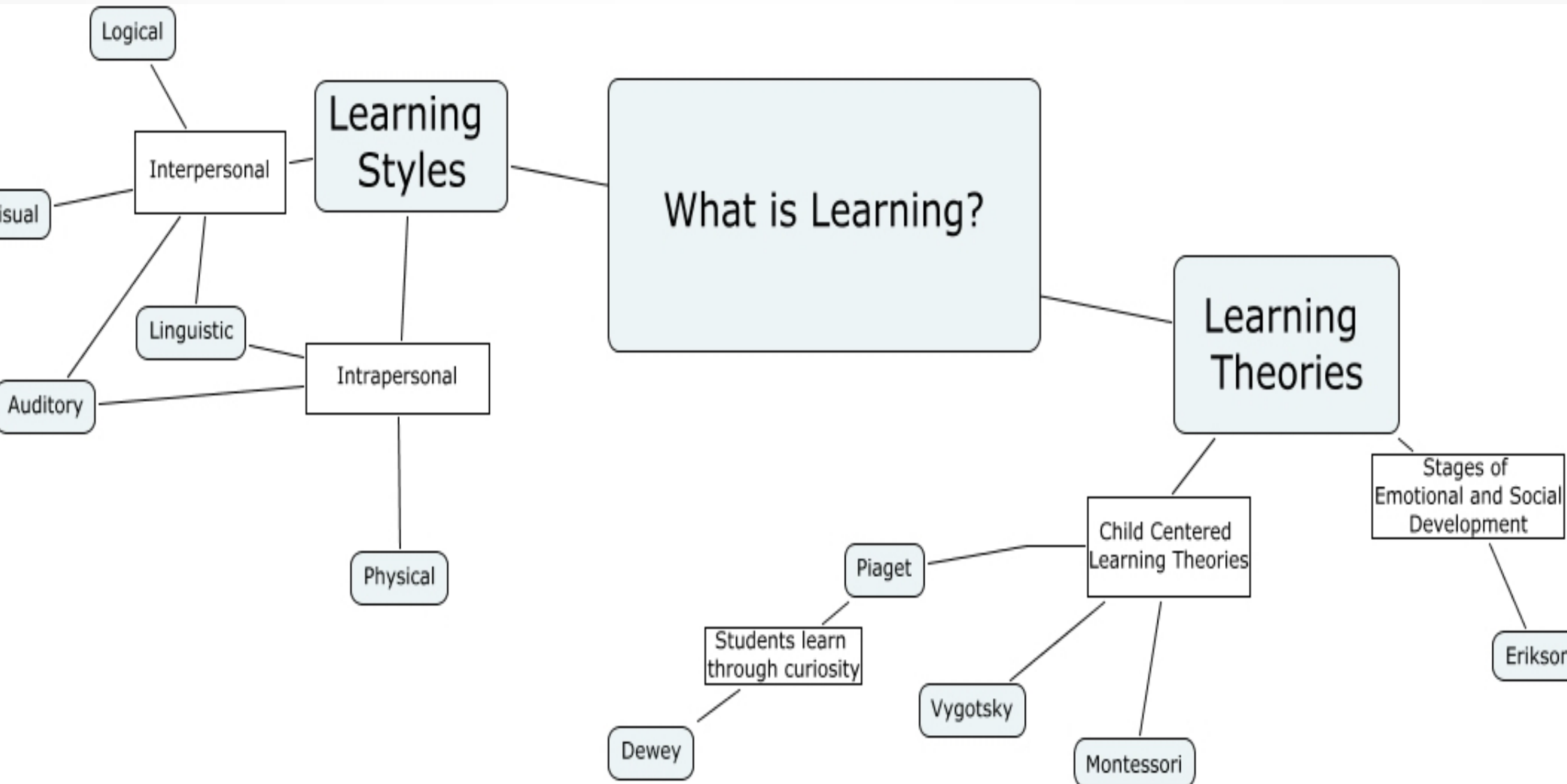
THEORIES OF LEARNING

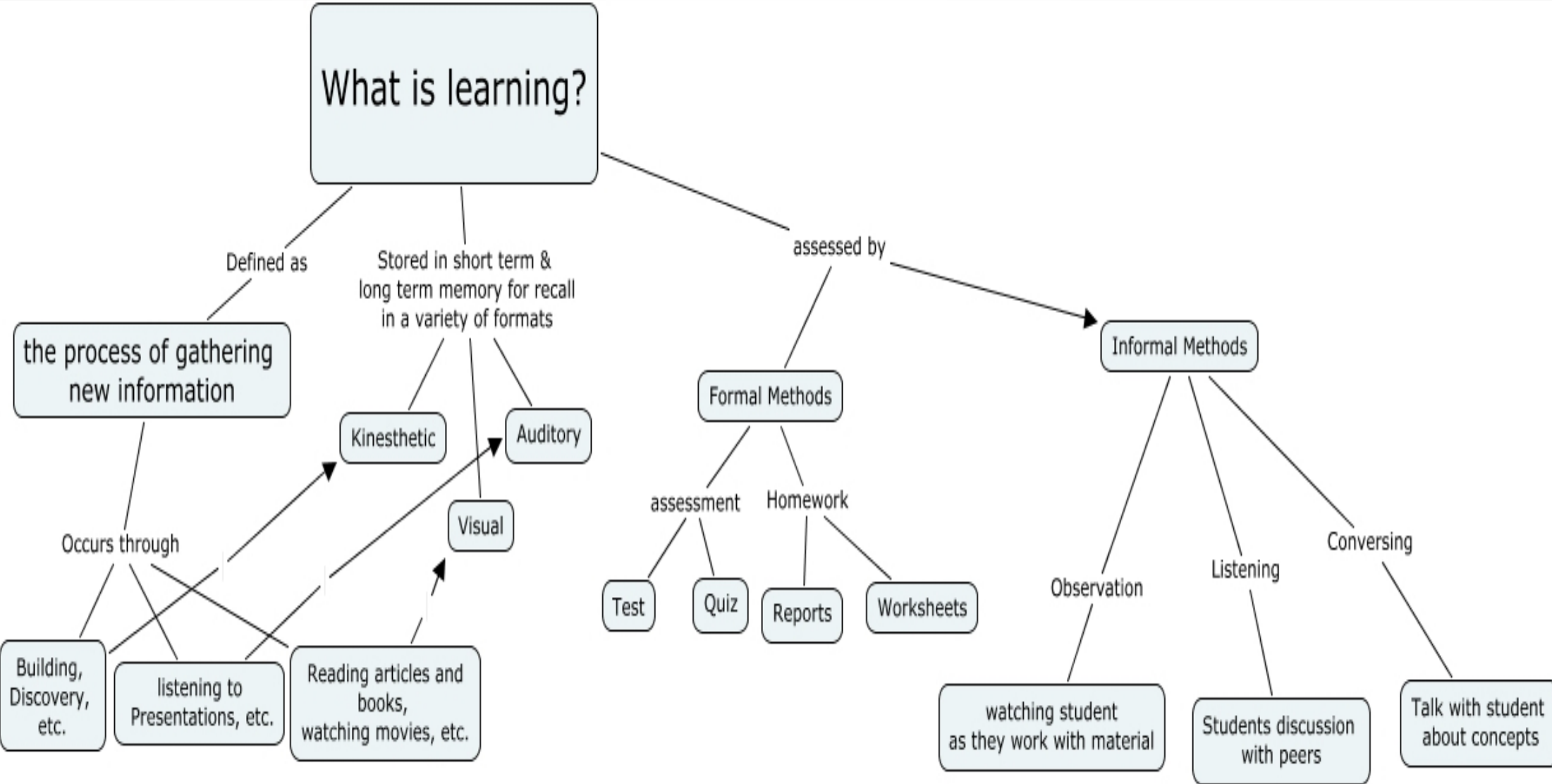




What is

LEARN*ing*?







- A Change in Behavior as a Result of Experience
- Learned Behaviors
- Unlearned Behaviors
- Intentional Learning
- Unintentional Learning
- Behavioral Theories of Learning Emphasize Observable Behavior



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Conditions of learning Video

(Video 2)



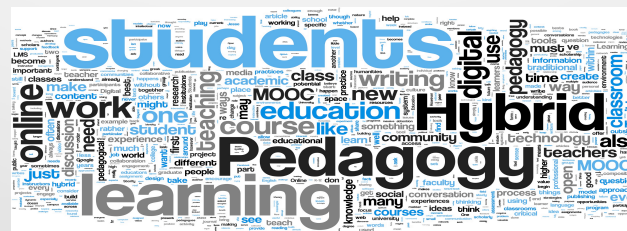
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Some Terminology



Pedagogy

Pedagogy is the act of teaching together with its attendant discourse. It is what one needs to know, and the skills one needs to command in order to make and justify the many different kinds of decisions of which teaching is constituted.



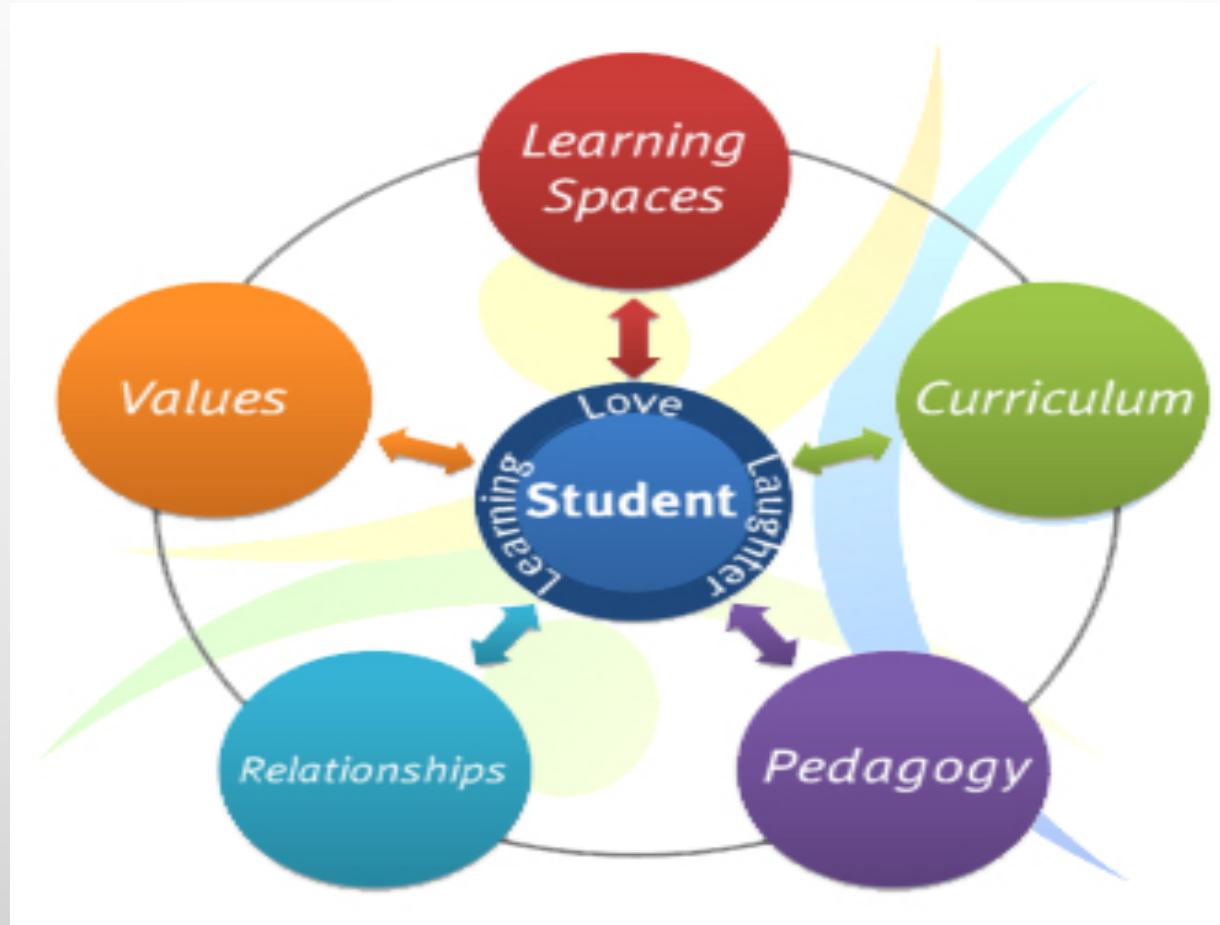


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From a learners perspective





WHAT IS A LEARNING THEORY?

adult albert analysis anchored animal arkansas article association bandura behaviorism bf boeree brief
classical classroom **cognitive** collaborative college communication
conditioning cooperative cortland database department design development
dissonance education em epistemology felder gagne gardner george **gestalt** griffin historical
information instruction intelligences interaction jean journal judgment kohler
learning lecture mental miller multiple operant page piaget practice processing
project **psychology** reinforcement research resource review situated **skinner**
social society state structure study summary systems teaching **theory** therapy thinking tip
university vygotsky web work world



ACTIVITY

Discuss:

- What should a learning theory be able to do ?
- Which is the 'best' learning theory ?



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ACTIVITY

Video

Behavioral, cognitive, Developmental, Social Cognitive and
Constructivist Perspectives

(Video 3)



Theories on how people learn are not new. **Piaget**, **Bruner**, **Vygotsky**, **Skinner** and others have theorized for years how it is we come to “know” things.

Unlike many scientific theories, it is unlikely that a single learning theory is “right,” and will ultimately prove other theories “wrong.” How people learn is complex, and any unifying theory on how it all happens that’s entirely accurate would likely be too vague to be helpful. In that way, each “theory” is more of a way to describe one truth out of many.





Traditional Theories Of Learning

Of the published research and science, the more popular theories in the last fifty years are:

Behaviorism

Learning is a process of reacting to external stimuli

Cognitivism

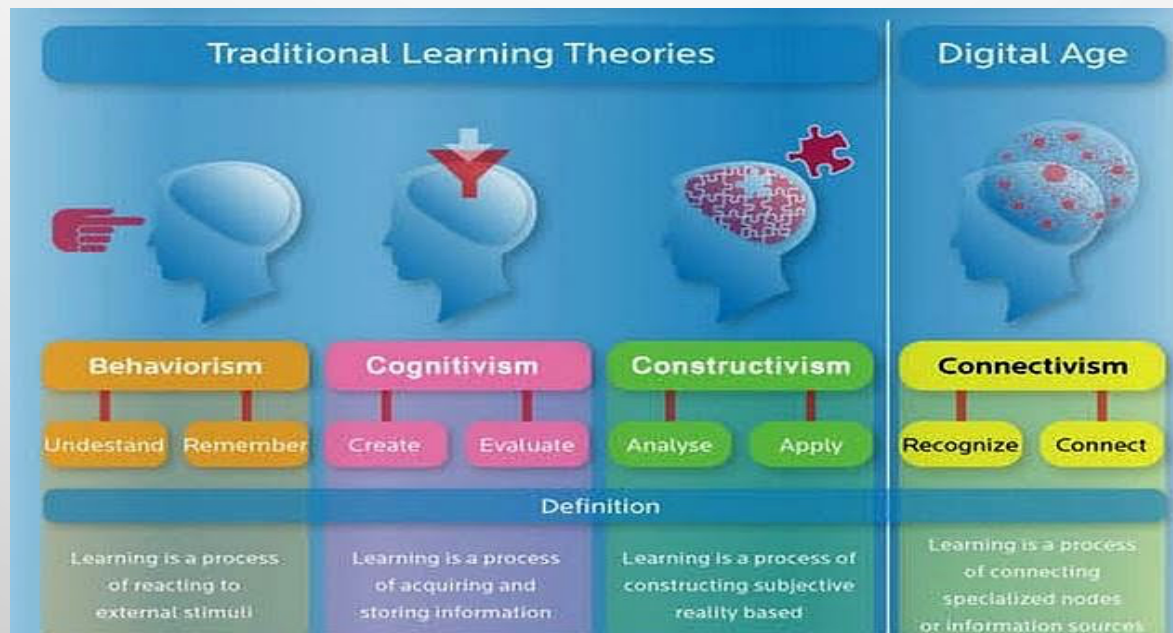
Learning is a process of acquiring and storing information

Constructivism

Meaning is continuously “constructed” through experience & reflection

Connectivism

Learning is a process of connecting specialized nodes





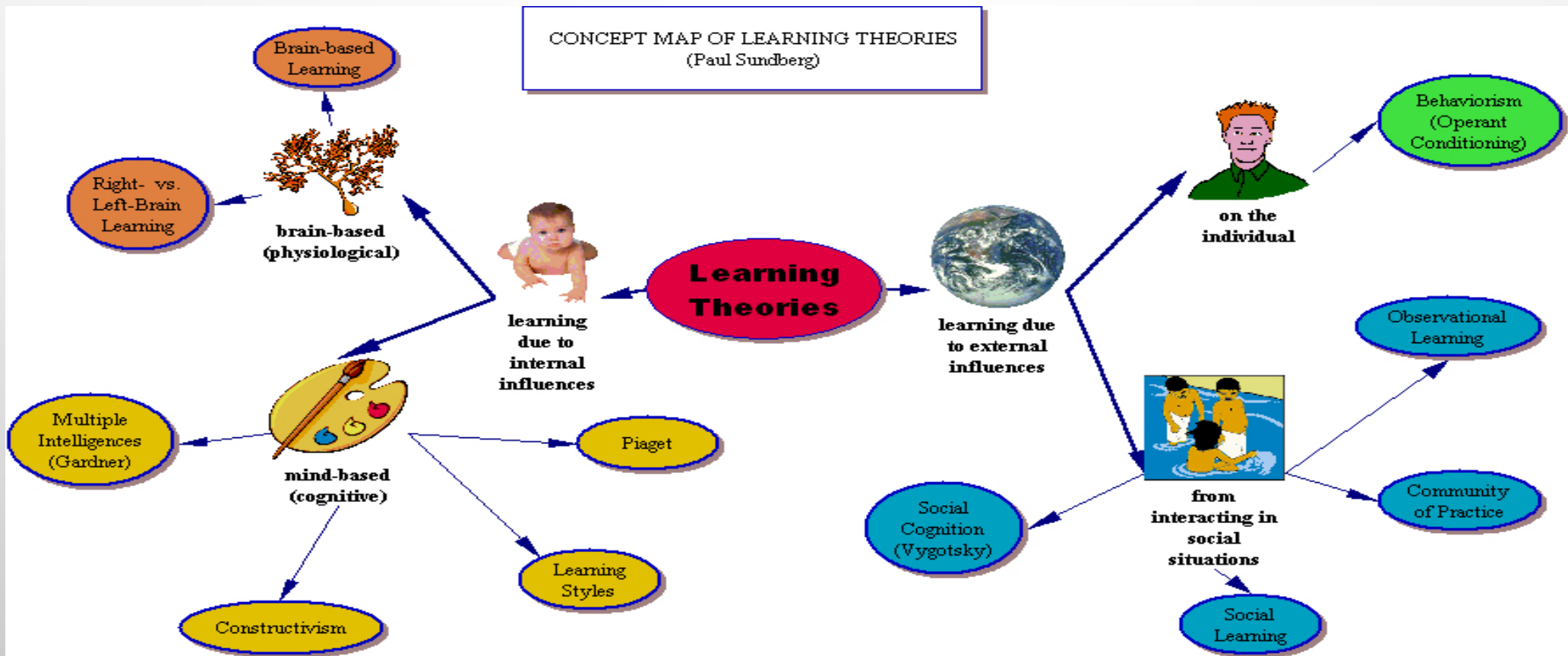
Some Others

Social Learning Theory

Multiple Intelligences

Brain-Based Learning

Let us investigate some



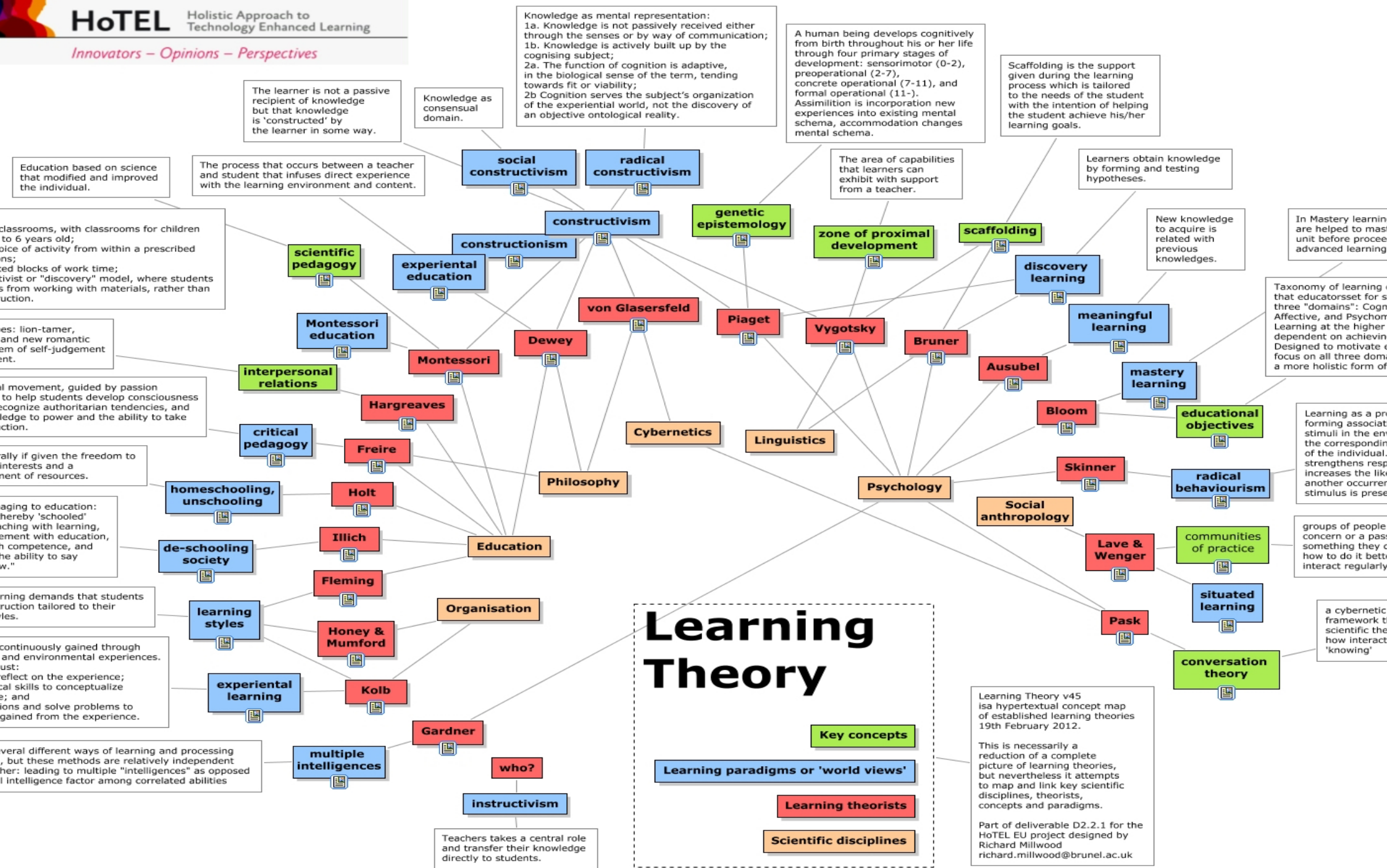


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There are a great many theories of learning.....

For the brave to investigate





The learner is not a passive recipient of knowledge but that knowledge is 'constructed' by the learner in some way.

Knowledge as mental representation:
1a. Knowledge is not passively received either through the senses or by way of communication;
1b. Knowledge is actively built up by the cognising subject;
2a. The function of cognition is adaptive, in the biological sense of the term, tending towards fit or viability;
2b. Cognition serves the subject's organization of the experiential world, not the discovery of an objective ontological reality.

A human being develops cognitively from birth throughout his or her life through four primary stages of development: sensorimotor (0-2), preoperational (2-7), concrete operational (7-11), and formal operational (11-). Assimilation is incorporation of new experiences into existing mental schema, accommodation changes mental schema.

Scaffolding is the support given during the learning process which is tailored to the needs of the student with the intention of helping the student achieve his/her learning goals.

Education based on science that modified and improved the individual.

The process that occurs between a teacher and student that infuses direct experience with the learning environment and content.

The area of capabilities that learners can exhibit with support from a teacher.

Learners obtain knowledge by forming and testing hypotheses.

New knowledge to acquire is related with previous knowledges.

In Mastery learning are helped to master unit before proceed advanced learning

classrooms, with classrooms for children to 6 years old; choice of activity from within a prescribed range; reduced blocks of work time; individualist or "discovery" model, where students learn from working with materials, rather than direct instruction.

Montessori: lion-tamer, and new romanticism of self-judgement and self-reliance.

Montessori movement, guided by passion to help students develop consciousness and recognize authoritarian tendencies, and to develop the ability to take action.

Montessori: usually if given the freedom to follow their interests and a sufficient amount of resources.

Montessori: relating to education: hereby 'schooling' is replaced by learning, in agreement with education, to develop competence, and the ability to say "no."

Montessori: learning demands that students receive instruction tailored to their individual needs.

Montessori: continuously gained through direct and environmental experiences. Just: reflect on the experience; use practical skills to conceptualize the experience; and use these skills to solve problems to be gained from the experience.

Montessori: several different ways of learning and processing information, but these methods are relatively independent of each other: leading to multiple "intelligences" as opposed to a single intelligence factor among correlated abilities

Teachers takes a central role and transfer their knowledge directly to students.

Learning Theory

- Key concepts
- Learning paradigms or 'world views'
- Learning theorists
- Scientific disciplines

Learning Theory v45 is a hypertextual concept map of established learning theories 19th February 2012.

This is necessarily a reduction of a complete picture of learning theories, but nevertheless it attempts to map and link key scientific disciplines, theorists, concepts and paradigms.

Part of deliverable D2.2.1 for the HoTEL EU project designed by Richard Millwood richard.millwood@brunel.ac.uk