Constructivist Views of Learning





EPSE 501 Seminar By: Iren and Davinder

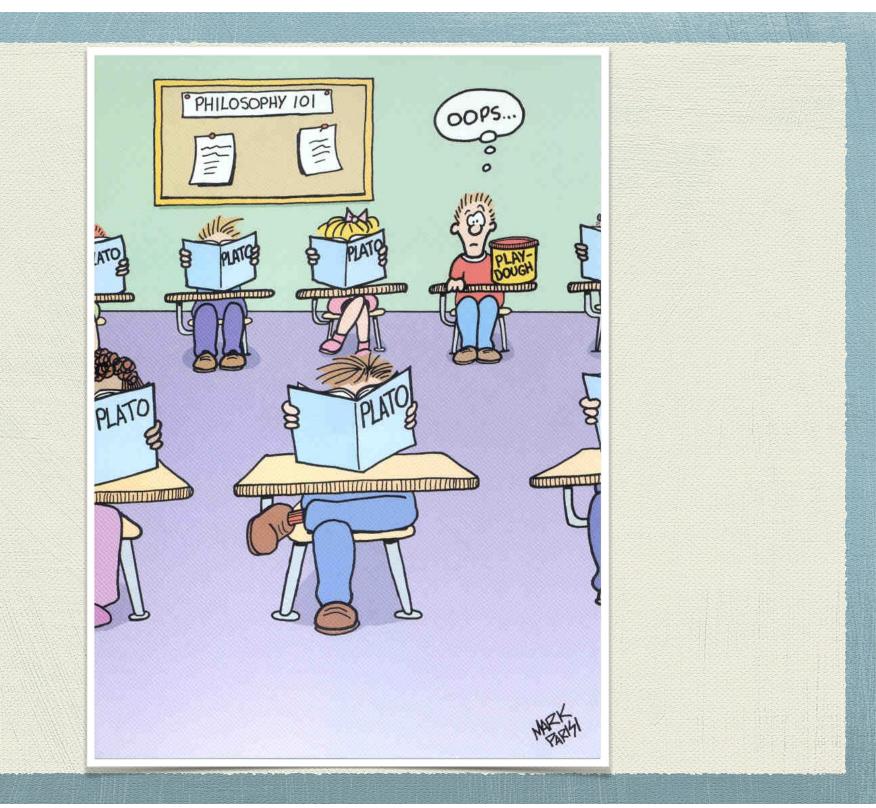


Ertmer & Newby (2013)

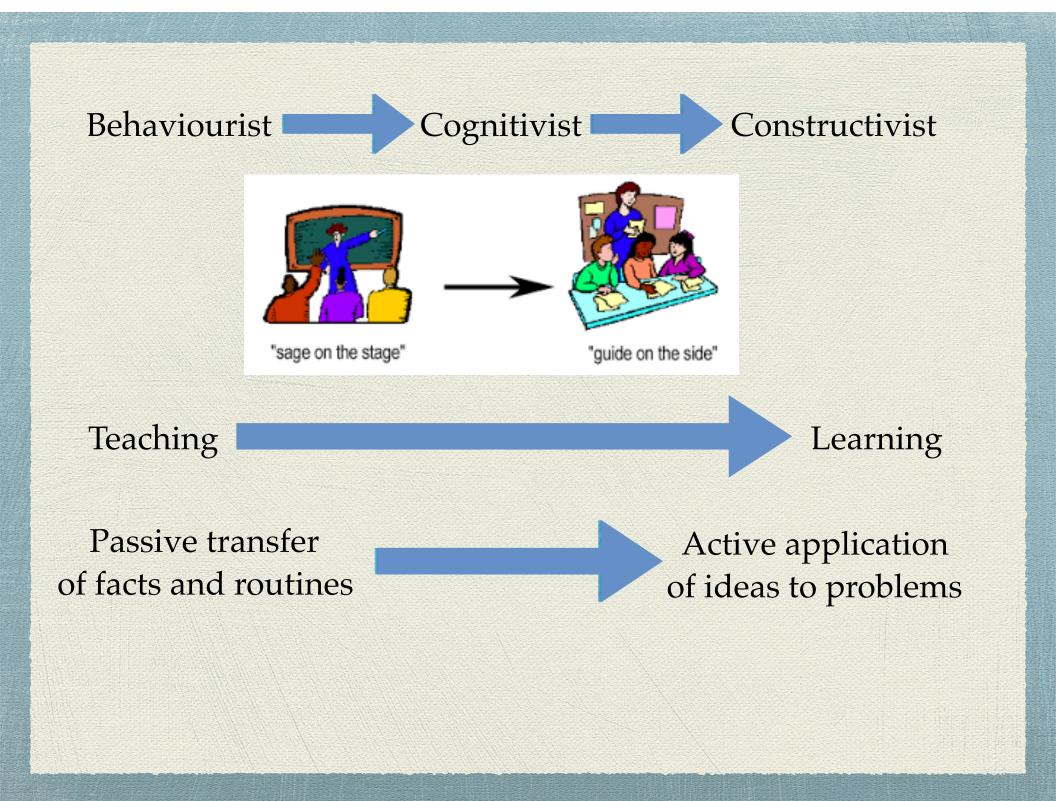
- Constructivism is the creation of knowledgethrough meaningful experiences (branch ofcognitivism)
- Mind filters information to create its own interpretation of reality
- Making meaning of the world is open to change

- Learner and environmental factors influence learning (interaction between these two variables creates knowledge)
- Learning does not require the memorization of particular facts
 - Learning must include: activity (practice), concept (knowledge), and culture (context)





- Three stages of knowledge acquisition are introductory (behaviourist), advanced (constructivist), and expert
- The constructivist approach may be effectively used at the advanced stage
 - Strategies of constructivism include:
 collaborative learning, use of
 multiple sources, debate,
 discussions, and reflective awareness



- Teacher's role is to:
 - instruct students
 on how to
 construct meaning
 and be able to
 monitor and
 evaluate those
 meanings
 - create authentic
 experiences in
 relevant contexts
 for learners



Piaget Cognitive Constructivist





Vygotsky Social Constructivist

Weegar & Pacis (2012)

Learning occurs through active participation

PIAGETVYGOTSKY(Cognitive Constructivist)(Social Constructivist)

- Children learn according to appropriate "ages" and "stages"
- Knowledge needs to be constructed through prior personal experiences to create mental images
- Teacher has a limited role only to assist children in creating their own knowledge

- Children learn within social settings
- Learners construct their own knowledge based on their own experiences
- Teacher plays a crucial role in the construction of meaning as a coexplorer

Epistemological comparison (examining how we know what we know and how it relates to education)

IDEALISM	REALISM	PRAGMATISM	EXISTENTIALISM
(Behaviorist)	(Behaviorist)	(Constructivist)	(Constructivist)
 Idea centered (not subject or child centered) Teacher is central to learning Activities: lecture, discussion, imitation 	 Content centered Teacher presents content in an organized manner Activites: standardized tests, serialized tests, serialized textbooks, discipline specific curriculum 	 Using ideas for problem solving (application of knowledge) Teacher as facilitator Activities: interdisciplinary curriculum 	 Individual based (subjective and unique) Learners construct their own meaning Teacher as guide Activities: small group discussions and dialogue

Online Activities



Behaviourism

Assessment: oral/written tests

Constructivism

Active learning

Direct instruction (asynchronous)

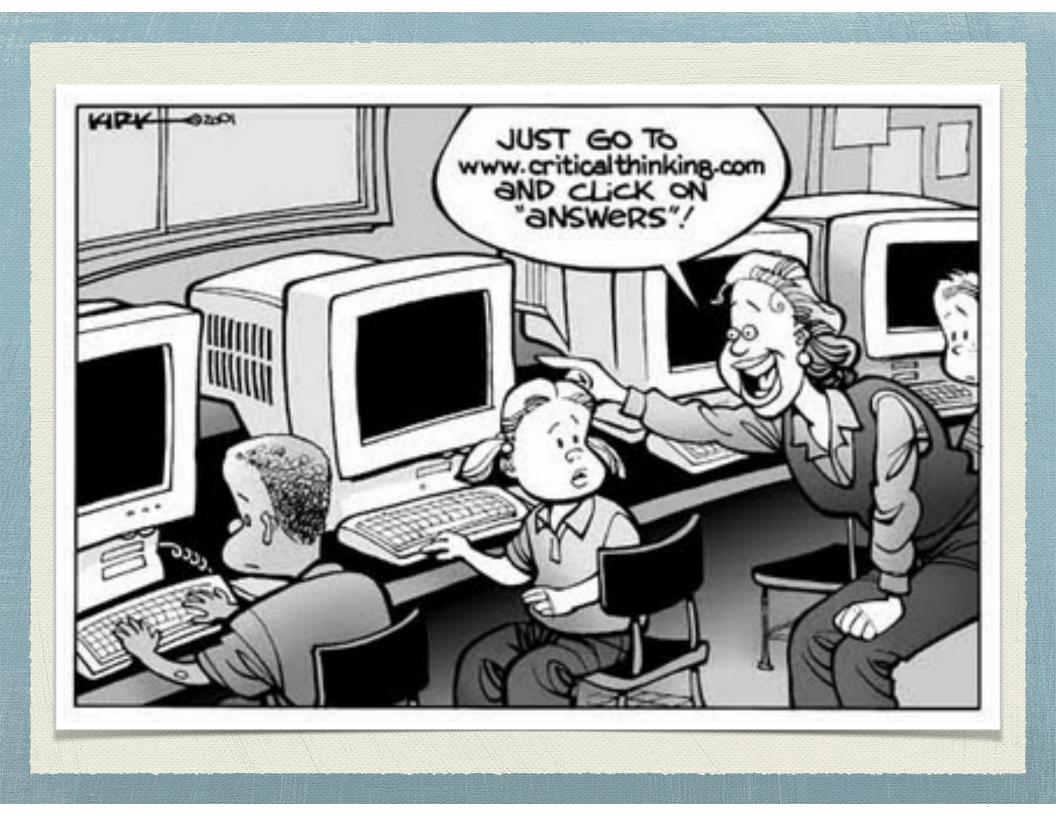
"Sage on the stage"

Impact on instructional design

Learners construct own understanding of the world based on unique personal experiences (Dewey, Piaget, Vygotsky) "Guide on the side"

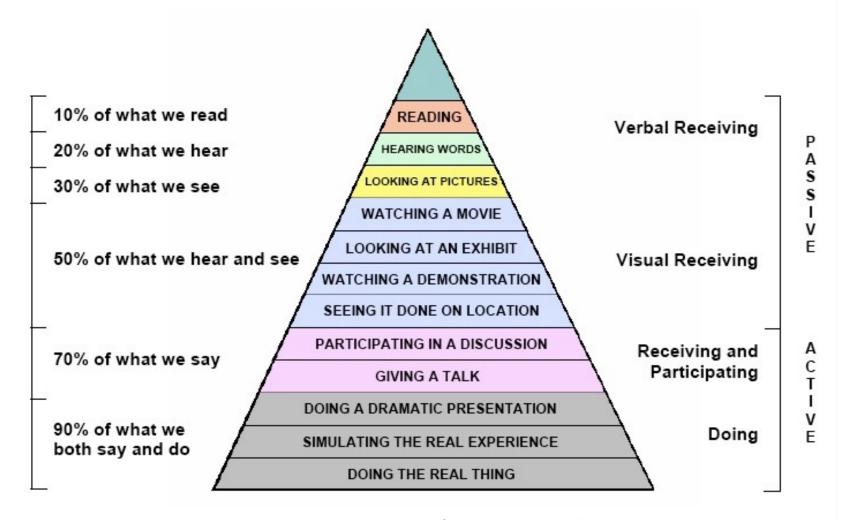
Cooperative learning, open-ended problems, and experimentation

Threaded discussions and problem based learning projects (synchronous)



CONE OF LEARNING WE TEND TO REMEMBER OUR LEVEL OF INVOLVEMENT

(developed and revised by Bruce Hyland from material by Edgar Dale)



Edgar Dale, Audio-Visual Methods in Teaching (3rd Edition). Holt, Rinehart, and Winston (1969).





Area of Learning: ENGLISH LANGUAGE ARTS

Grade 7

Ministry of Education

BIG IDEAS

Language and text	Exploring stories and other texts	Exploring and sharing	Developing our	Questioning what we hear,
can be a source of	helps us understand ourselves	multiple perspectives	understanding of how	read, and view contributes
creativity and joy.	and make connections to others	extends our thinking.	language works allows us	to our ability to be educated
	and to the world.		to use it purposefully.	and engaged citizens.

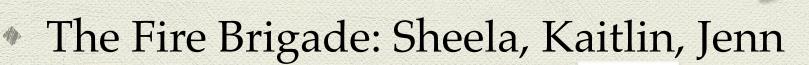
Learning Standards

Curricular Competencies	Content
Using oral, written, visual, and digital texts , students are expected individually and collaboratively to be able to:	Students are expected to know the following: Story/text
 Comprehend and connect (reading, listening, viewing) Access information and ideas for diverse purposes and from a variety of sources and evaluate their relevance, accuracy, and reliability 	 forms, functions, and genres of text text features literary elements
 Apply appropriate strategies to comprehend written, oral, and visual texts, guide inquiry, and extend thinking Synthesize ideas from a variety of sources to build understanding 	 literary devices argument
 Synthesize ideas from a variety of sources to build understanding Recognize and appreciate how different features, forms, and genres of texts reflect different purposes, audiences, and messages 	Strategies and processes reading strategies
 Think critically, creatively, and reflectively to explore ideas within, between, and beyond texts 	 oral language strategies metacognitive strategies
 Recognize and identify the role of personal, social, and cultural contexts, values, and perspectives in texts 	writing processes
 Recognize how language constructs personal, social, and cultural identity 	Language features, structures, and conventions
 Construct meaningful personal connections between self, text, and world 	 features of oral language
 Respond to text in personal, creative, and critical ways 	 paragraphing
 Understand how literary elements, techniques, and devices enhance and shape meaning 	 language varieties
 Recognize an increasing range of text structures and how they contribute to meaning 	 syntax and sentence fluency
 Recognize and appreciate the role of story, narrative, and oral tradition in expressing First Peoples perspectives, values, beliefs, and points of view 	conventionspresentation techniques
 Recognize the validity of First Peoples oral tradition for a range of purposes 	



Character Groups:

- The Dog: Sharissa, Peter, Renuka
- Ben: Todd, Joti, Cherie
- The Dog Rescue: Carrie, Oli, Angela



- The Police: Simon, Amy
- Bella: Belinda, Robyn, Shawna











Reading with Mrs. Sandhu and Ms. Braich

This book just ate my dog!

Your task is to:

Complete the journey of your character



- Think about where they are and what they are doing after they have vanished into the fold of the book
- Explain the remaining journey of your assigned character using ChatterKid (create a max. of 2 clips)
- Be prepared to airplay to share your story



Character Groups:

- The Dog: Sharissa, Peter, Renuka
- Ben: Todd, Joti, Cherie
- The Dog Rescue: Carrie, Oli, Angela
- The Fire Brigade: Sheela, Kaitlin, Jenn
 - The Police: Simon, Amy
 - Bella: Belinda, Robyn, Shawna









Summary of Articles and Reflections:

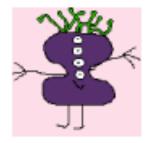
- Better understood the differences between the theories (Peter, Sharissa, Angela, Cherie, Robyn, Renuka)
- Use behaviouristic or cognitive strategies for introducing new knowledge and then use constructivist strategies to develop those concepts (Sheela, Sharissa, Belinda, Robyn, Todd)
 EPSE 501 Blog Site
- The theories are complicated and inter-related (Peter, Joti, Simon, Oli, Todd, Jenn)
- Applies to every learner (children and adults) (Kaitlin)



Posted on <u>January 4, 2011</u> by <u>Shawna</u>

 Real life experiences and connections to create an authentic context for learning (Kaitlin, Sheela) Teacher to facilitator or "guide on the side," co-explorer (Peter, Kaitlin, Angela, Carrie, Robyn, Renuka)

- Connections to BC curriculum (Amy, Joti, Angela, Carrie, Oli, Robyn, Renuka)
 - Relates to IB curriculum (Cherie)



- Changes in assessment (eg: Inquiry based/PBL) (Peter, Carrie, Renuka, Jenn)
- Making online learning engaging and more participatory (Amy)



 Not enough evidence of constructivist online learning strategies provided (Carrie, Simon, Belinda)

Supplemental Resources:

Sir Ken Robinson's thoughts on changing education paradigms:

Do Schools Kill Creativity?

https://www.youtube.com/watch?v=iG9CE55wbtY

Changing Education Paradigms https://www.youtube.com/watch?v=zDZFcDGpL4U

