



## How Does the Brain Learn?

## There are MANY different theories on how people learn

Neuroscience – learning is based on physical changes in the nervous system Piaget's Developmental Theory - building of cognitive structures based on age Behaviorism – learning is the acquisition of a new behavior Constructivism – personal reflection leads to learning Learning Styles – learning depends on the educational experience Multiple Intelligences – different types of learning abilities exist Right Brain/Left Brain Thinking – different balances between hemispheres in different people Communities of Practice – learning is a social phenomenon Control Theory – behavior is inspired by basic human needs Social Learning Theory – learning from watching others Social Cognition – learning/development depends on experience

> Adapted from http://www.funderstanding.com

























## **Education is practical neuroscience**

This does not mean that every teacher needs to become a neuroscientist or memorize 100 neurotransmitters and 50 brain areas responsible for cognition. But it does mean that teachers can become more effective with some knowledge of how the brain senses, processes, stores, and retrieves information.