Eclectic Paradigm Educational Technology: Paradigms, Theories and Applications Combines some elements from each of other paradigms Educators must know when to use the right "tool" from the right paradigm at the right time Kristin Heathcock Postpositivism/Objectivism Paradigm Interpretivism/Constructivism/Relativism **Critical Theory Paradigm** Paradigm There are universal, discoverable facts Critical, skeptical Reality is external to human mind Knowledge construction is based on experi-Produce socially active students Knowledge transmission is teacher directed Interested in power relationships Knowledge is contextually based Educators should be activists for social change Collaboration Behaviorism Cognitivism **Educational applications** Begin with one concept and gradually Social action projects, peace diaries, voices of Information Processing Theory increase knowledge by building on youth, digital divide initiatives Schema Theory: assimilation and accommodation as prior knowledge means of fitting experience into existing schema Postpositivism/ Operant Conditioning (Skinner): Neuroscience stimulus-response-consequence Metacognition Objectivism **Eclectic Paradigm** Gagne's Events of Instruction **Cognitive Training Model** Behaviorism **Educational applications** Constructivism Drill and practice, programmed instruction, Learning is social activity direct instruction, computer aided **Educational applications** Learning by doing instruction, programmed tutoring, personalized Multiple intelligences Concept mapping, audiovisual media, digital system of instruction Situated cognition multimedia, visual learning, auditory Cognitivism learning, Interpretivism/ Critical Theory Constructivism/ Relativism **Educational applications** Case-based instruction, collaborative learning, mindtools, simulations, telecollaborative activities, anchored instruction, problem-based learning Constructivism