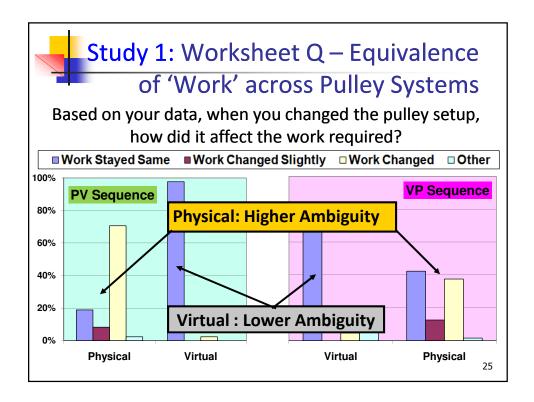
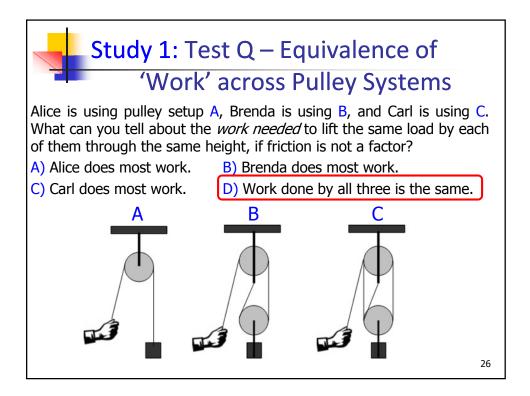
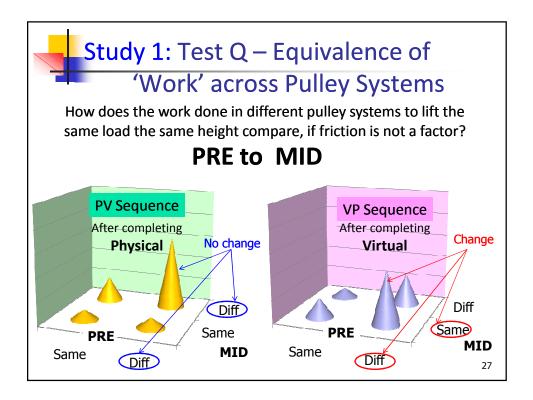
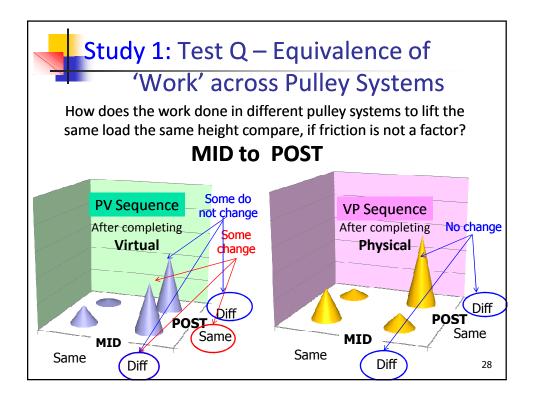


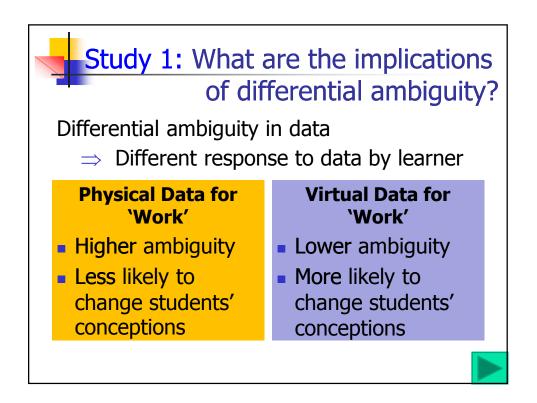
Study 1: An Example of Ambiguous & Unambiguous Data		
Type of Pulley System	Work value determined in PHYSICAL experiment	Work value measured in VIRTUAL experiment
Single Fixed	.49 J	.50 J
Single Movable	.52 J	.50 J
Single Compound	.48 J	.50 J
Double Compound	.54 J	.50 J
		24

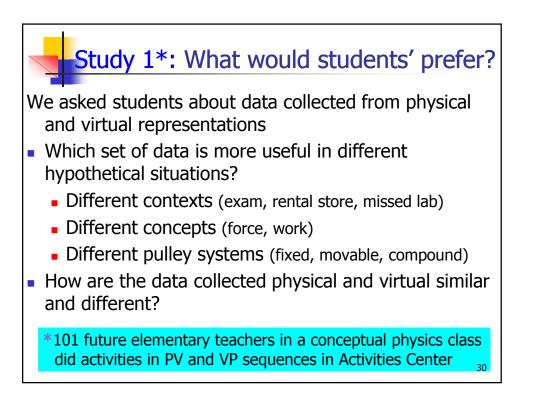


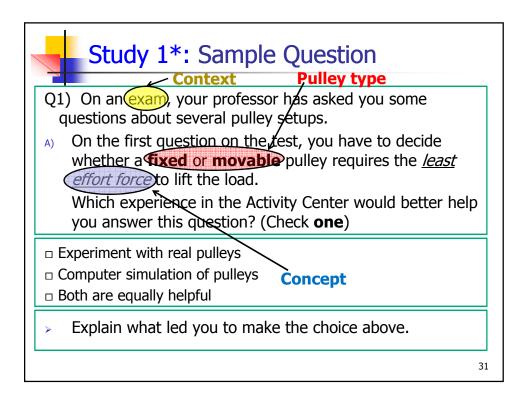


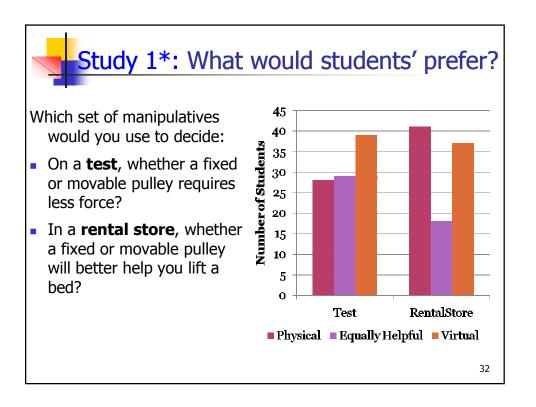


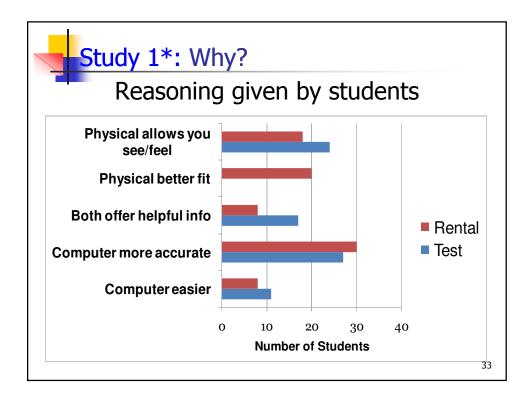


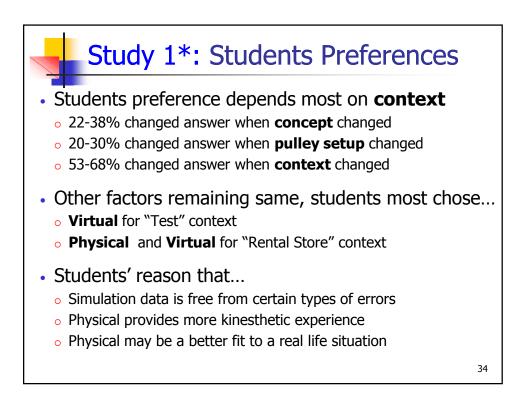


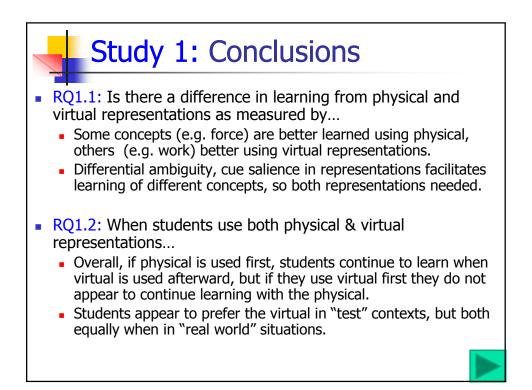


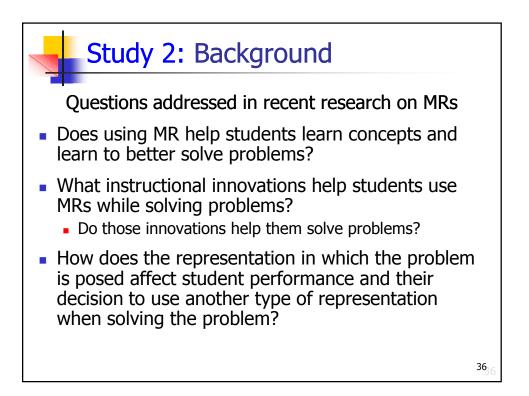


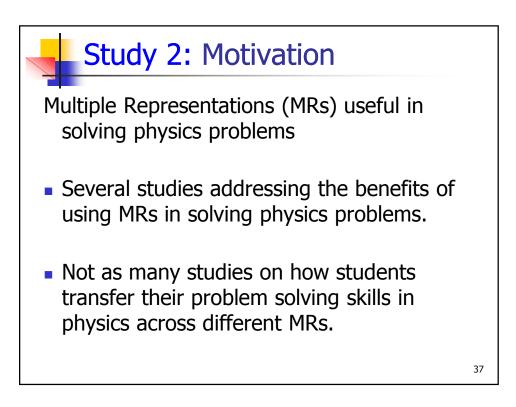


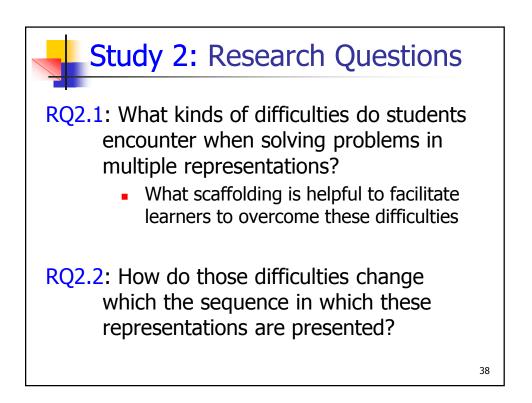


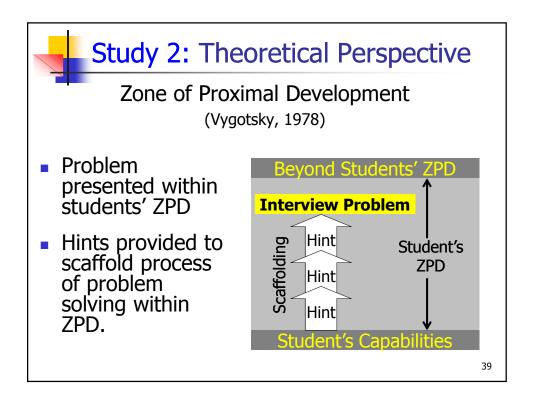


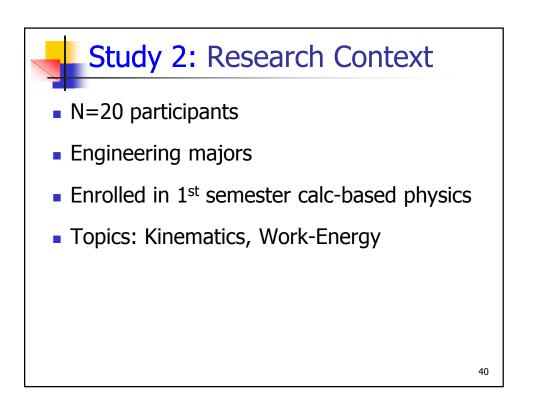


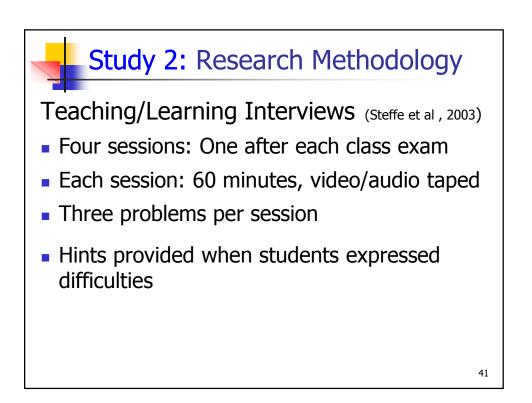


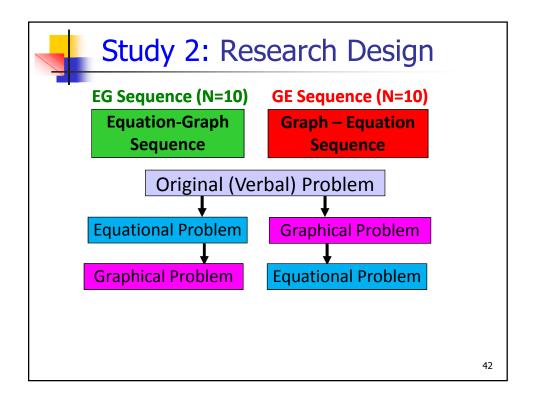


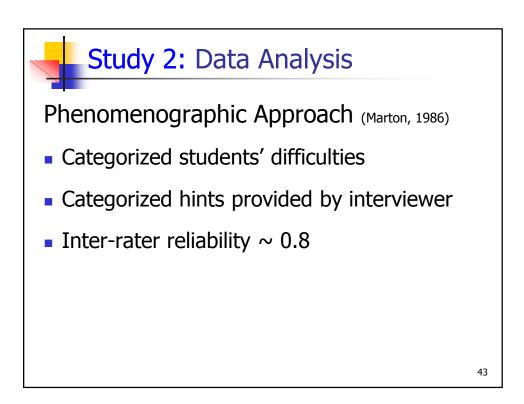


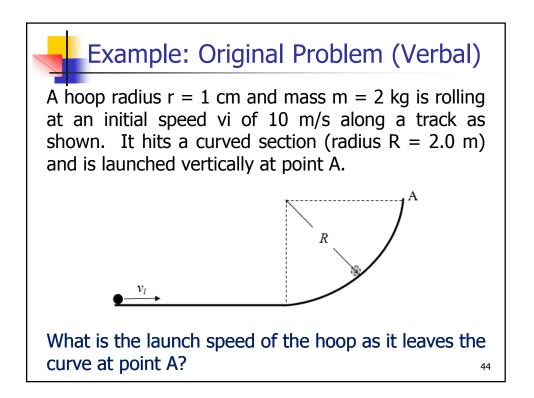


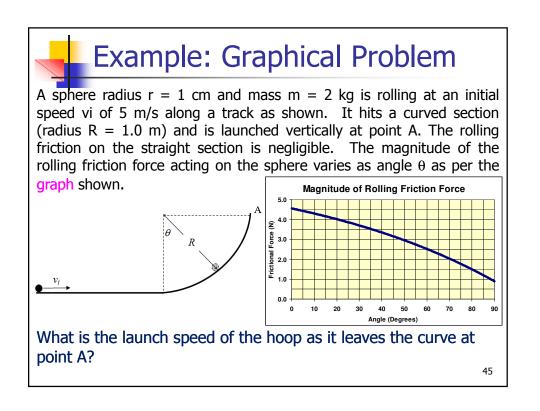


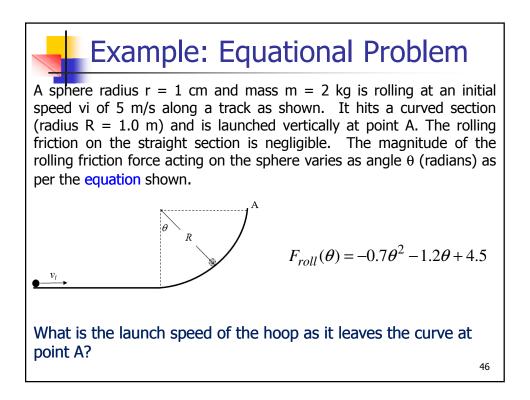














• GRAPH: difficulty processing information from graph

- FUNCTION: inappropriate interpretation of equation
- PRINCIPLE: inappropriate use of physical principles
- QUANTITY: incorrect use of physical quantities
- FORMULA: incorrect interpretation of formulae
- VALUE: Using incorrect value of physical quantities
- MATH: Inability to manipulate math processes
- CALCULATION: simple calculation errors

47

