



What's Missing

How to Use "What's Missing"

- Show students a list, diagram, picture, or problem related to course content with information omitted
- Have students identify missing information
- Discuss with shoulder partner
- Be prepared to report out

Example of "What's Missing"

Summary of Failure Types, Mechanisms, and Surface Features MSE250: Structures and Properties of Materials				
	Nil-Ductility Temperature (NDT) Failure	Fatigue Failure	Creep Failure	Stress Corrosion Cracking Failure
Condition	_____	Cyclic loading	High temperature	Stress + corrosion crack agent
Lifetime Prediction Test	Charpy impact	_____	Creep test furnace	Stress corrosion ring test
Mechanism	Transgranular crack propagation for brittle fracture	Cyclic crack opening + closing; Initiation, Propagation, Failure	_____	Fracture propagation along grain boundaries for brittle fracture
Surface Features	Flat, smooth surface	Parallel surface striations	Micronecking, voids, cup-cone drawing of metal	_____