

Diagnoser Tools

Indicates a research-demonstrated benefit

Overview

Coverage

Tools to elicit students' initial ideas, lessons to engage those ideas, assessment items, and reporting structures for students and teachers.

🏠 Type of Method	Instructional strategy, Curriculum supplement
X Level	Designed for: Teacher Professional Development ♠, Middle School ♠, Teacher Prep Course, High School Can be adapted for: Intro College Calculus-based, Intro College Algebra-based, Intro College Conceptual, Intermediate, Upper-level Undergraduate
	Designed for: Lecture - Small (<30 students) Can be adapted for: Lecture - Large (30+ students), Recitation/Discussion Session Lab Homework Studio

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	Session, Lab, Homework, Studi	io	

Topics	Mechanics, Waves / Optics, Other Science, Pedagogy

Few topics with great depth

Instructor Effort	Medium	

Resource Needs	Computers for students, internet access
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	Designed for: Conceptual understanding			
Skills	Can be adapted for: Problem-solving skills, Making real-world connections, Using			
	multiple representations, Designing experiments, Metacognition			

Based on rese	earch into: theories of now students learn	8	, student ideas about
specific topics	♦		

Research	Demonstrated to improve: conceptual understanding 🐧 , beliefs and attitudes
Validation	ຈ , retention of students 👒
	Studied using: classroom observations 🤏 , analysis of written work 🤏 ,

Studied using: classroom obse	ervations	, analysis of writte	n work	,
research at multiple institutions	🤏 , re	esearch by multiple group	os 🤏	

<u>PBI</u>	
Compatible Method	

<u></u> A S	imilar	Method	None
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Developer(s) **FACET Innovations**

Website http://www.Diagnoser.com

Naticle Intro Article 4322

Naticle Intro Article **Designing Diagnostic Assessments**







