



Intermediate Mechanics Tutorials

Indicates a research-demonstrated benefit

Overview

Small-group learning materials for teaching intermediate mechanics. A mix of conceptual, mathematical, and problem-solving activities.



Type of Method Curriculum supplement, Tutorials



Level

Designed for: Upper-level Undergraduate

Can be adapted for: Intermediate, Graduate School



Setting

Designed for: Lecture - Small (<30 students), Recitation/Discussion Session

Can be adapted for: Homework, Studio



Coverage

Many topics with less depth



Topics

Mechanics



Instructor Effort

Medium



Research Validation

Based on research into: theories of how students learn , student ideas about specific topics

Demonstrated to improve: conceptual understanding

Studied using: classroom observations



Compatible Methods

[Peer Instruction](#), [PhET](#), [JITT](#), [CGPS](#), [Physlets](#), [SCALE-UP](#), [OSP](#), [LA Program](#), [CAE TPS](#), [Paradigms](#), [Tutorials](#), [Clickers](#)



Similar Methods

[UW Tutorials](#), [ABP Tutorials](#), [OST Tutorials](#), [Lecture-Tutorials](#), [QuILTs](#), [Thermal Tutorials](#), [Tutorials](#)



Developer(s)

Michael C. Wittmann and Bradley S. Ambrose



Website

<http://faculty.gvsu.edu/ambroseb/research/IMT.html>