

Tasks Inspired by Physics Education Research

 Indicates a research-demonstrated benefit

Overview

Short activities that help students apply concepts and address known difficulties; designed so that they cannot be solved using plug and chug.



Type of Method

Curriculum supplement



Level

Designed for: Intro College Calculus-based, Intro College Algebra-based

Can be adapted for: Teacher Preparation, Teacher Professional Development, High School, Intro College Conceptual



Setting

Designed for: Lecture - Large (30+ students), Lecture - Small (<30 students)

Can be adapted for: Recitation/Discussion Session, Homework, Studio



Coverage

Many topics with less depth



Topics

Electricity / Magnetism



Instructor Effort

Low



Resource Needs

Cost for students





Skills

Designed for: Conceptual understanding of physics content



Research Validation

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



Compatible Methods

[Peer Instruction](#), [PhET](#), [UW Tutorials](#), [JiTT](#), [Ranking Tasks](#), [ILDs](#), [CGPS](#), [Physlets](#), [Context-Rich Problems](#), [ABP Tutorials](#), [SCALE-UP](#), [OSP](#), [SDI Labs](#), [OST Tutorials](#), [Thinking Problems](#), [Workbook for Introductory Physics](#), [LA Program](#), [CAE TPS](#), [MBL](#), [CPU](#), [SCL](#), [TEFA](#), [M&I](#), [Tutorials](#), [Clickers](#), [RealTime Physics](#), [Tools for Scientific Thinking](#), [Responsive Teaching](#)



Similar Methods

[Ranking Tasks](#), [Thinking Problems](#), [Astro Ranking Tasks](#)



Developer(s)

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Website

<http://tycphysics.org/tipers.htm>

