



Guid Ranking Task Exercises in Physics

Indicates a research-demonstrated benefit

Overview

Exercises in which students rank variations of a physical situation on the basis of a specified physical quantity and explain their reasoning.

Type of Method	Curriculum supplement
X: Level	Designed for: Intro College Calculus-based 🦣 , Intro College Algebra-based Can be adapted for: Teacher Prep Course, Teacher Professional Development, High School, Intro College Conceptual
	Designed for: Lecture - Small (<30 students) □ , Lecture - Large (30+ students) Can be adapted for: Recitation/Discussion Session, Homework, Studio
Coverage	Many topics with less depth
Topics	Mechanics, Electricity / Magnetism, Waves / Optics, Thermal / Statistical, Astronomy
Instructor Effort	Low
Resource Needs	Cost for students
Skills	Designed for: Conceptual understanding
Research Validation	Based on research into: theories of how students learn 🤏 , student ideas about specific topics 🤏
Compatible Methods	Peer Instruction, PhET, UW Tutorials, JiTT, ILDs, CGPS, Physlets, Context-Rich Problems, RealTime Physics, TIPERs, ABP Tutorials, SCALE-UP, OSP, SDI Labs, OST Tutorials, Thinking Problems, Workbook for Introductory Physics, LA Program, CAE TPS, MBL, CPU, SCL, TEFA, Tools for Scientific Thinking, M&I, Tutorials, Clickers, Responsive Teaching
Similar Methods	TIPERs, Thinking Problems, Astro Ranking Tasks
Developer(s)	Thomas O'Kuma, David P. Maloney, Curtis Hieggelke
Website	https://www.pearsonhighered.com/product/O-Kuma-Ranking-Task-Exercises-in-Physics-Student-Edition/9780131448513.htm

Teaching materials

Ranking Task Exercises in Physics come in a book published by Pearson. You can order them from Pearson or from Amazon.

