



## 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



**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



**Setting**

**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



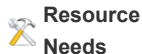
**Topics**

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](#).