Conceptual Physics

Conceptual physics is an approach to teaching physics that focuses on the ideas of physics rather than the often daunting mathematics. It is believed that with a strong conceptual foundation in physics, students are better equipped to understand the equations and formulas of physics, and to make connections between the concepts of physics and their everyday life. Early versions used almost no equations or math-based problems.

- Book: Conceptual Physics (Crowell)

For a semester-length course, all seven chapters can be covered. For a shorter course, the book is designed so that chapters 1, 2, and 5 are the only ones that are required for continuity; any of the others can be included or omitted at the instructor's discretion, with the only constraint being that chapter 6 requires chapter 4.

- Front Matter
- Introduction and Review
- 1: Conservation of Mass
- 2: Conservation of Energy
- 3: Conservation of Momentum
4: Conservation of Angular Momentum
5: Thermodynamics
6: Waves
7: Relativity
8: Atoms and Electromagnetism
9: Circuits
10: Fields
11: Electromagnetism
12: Optics
13: Quantum Physics
Back Matter

Contributors

- Wikipedia