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This collection of interactive simulations allow learners of Physics to explore core physics concepts by altering variables and observing the results. This section contains more than 70 simulations and the numbers continue to grow.

#### **Physics Simulations at The Physics Classroom**

Each interactive concept-builder presents learners with carefully crafted questions that target various aspects of a discrete concept. There are typically multiple levels of difficulty and an effort to track learner progress at each level. Question-specific help is provided for the struggling learner; such help consists of short explanations of how to approach the situation.

#### **Concept Builders for Physics**

About HyperPhysics. Rationale for Development. HyperPhysics is an exploration environment for concepts in physics which employs concept maps and other linking strategies to facilitate smooth navigation.

### **HyperPhysics - Georgia State University**

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Then solve for v as a function of t..  $v = v \cdot 0 + at \cdot [1]$ . This is the first equation of motion. It's written like a polynomial — a constant term (v 0) followed by a first order term (at). Since the highest order is 1, it's more correct to call it a linear function. The symbol v 0 [vee nought] is called the initial velocity or the velocity a time t = 0. It is often thought of as the "first ...

# Equations of Motion - The Physics Hypertextbook

Quantum mechanics (QM; also known as quantum physics, quantum theory, the wave mechanical model, or matrix mechanics), including quantum field theory, is a fundamental theory in physics which describes nature at the smallest scales of energy levels of atoms and subatomic particles.. Classical physics, the physics existing before quantum mechanics, describes nature at ordinary (macroscopic) scale.

#### Quantum mechanics - Wikipedia

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that exhibit the photovoltaic effect.

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## Laser - Wikipedia

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Build an atom out of protons, neutrons, and electrons, and see how the element, charge, and mass change. Then play a game to test your ideas!

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# Calphysics Institute: Introduction to Zero-Point Energy

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