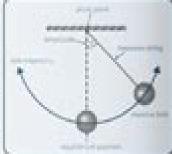
Keeping Time with Big Ben



Some Ideas You Can Use: The Components of a Pendulum.

The picture at right shows the components of a pendulum. The three main parts of a pendulum that might affect the period of the pendulum are the pivot point, the pendulum bob, and the massiuss rod or string connected to the pendulum bob and anchored at the pivot point. We assume the rod or string is mossless when the mass of the pendulum bob is much larger than the mass of the rod or string.



When the pendulum is hanging straight down, we say the bob is at the equilibrium position. When we pull the pendulum back from the

equilibrium position, the angle the pendulum makes is called the amplitude. When the pendulum bob is released, the pendulum will swing back and forth around the equilibrium position.



Keeping Time with Big Ben

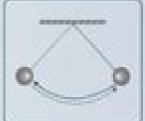


Some Mess You Can Use: Simple Harmonic Motion.

Fendulums, such as the one found within Big Ben, are part of a class of objects that undergo simple harmonic medion. An object in simple harmonic motion moves back and forth about the equilibrium position. When a pendulum is not moving, the bob will rest for hang motionless) at the equilibrium position. When an outside force moves the bob from its equilibrium position, a restoring force causes the object to move back toward its equilibrium position. This process is then repeated multiple times as the bob swings. back and forth. This motion is referred to as simple, because after the initial force to

move the bob from equilibrium, the only forces acting on the bob are the restoring force and the tension in

There are several ways to describe the motion of the pendulum. One of the most common is to measure the: period (T) of the pendulum, which is the time (measured in seconds) it takes to make one complete swing from the starting position and back. The picture at right shows a pendulum making a complete swing.



Some things	I know from what I read





Argument Driven Inquiry

Shasha Hu

Argument Driven Inquiry:

Argument-driven Inquiry in Physics Todd Hutner, Victor Sampson, Daniel FitzPatrick (Clinical assistant professor of mathematics), 2020 Are you interested in a three dimensional approach to helping your high school physics students learn the practices of science including constructing explanations and engaging in argument from evidence By using argument driven inquiry ADI for high school physics lab instruction you can do just that Argument Driven Inquiry in Physics Volume 2 provides the information and instructional materials you need to start using this method right away for electricity and magnetism investigations. The book is a one stop source of expertise advice and lessons to help physics students work the way scientists do The book is divided into three parts An introduction to argument driven inquiry and how to use the labs You ll learn about the stages of ADI from question identification data analysis and argument development and evaluation to double blind peer review and report revision A well organized series of 17 field tested labs designed to be much more authentic for instruction than traditional laboratory activities. The labs cover a variety of topics including electrostatics electric current capacitors resistors and circuits and magnetic fields and electromagnetism Introduction labs acquaint students with new content Application labs encourage deeper exploration of the use of a theory law or unifying concept Helpful appendixes These range from timeline options to peer review guides and teacher scoring rubrics including ones for AP physics ADI in Physics Volume 2 is a follow up to ADI in Physics Volume 1 Mechanics Lab Investigations for Grades 9 12 Both are part of the NSTA Press series for ADI in biology chemistry life science and physical science The authors understand your time constraints so they designed the books with easy to use lab handouts student pages teacher notes and checkout questions The labs also support three dimensional instruction helping students learn the science practices crosscutting concepts and core ideas found in the Next Generation Science Standards The labs also support student learning of standards in both algebra and calculus based AP Physics courses In addition they offer ways for students to develop the disciplinary skills outlined in the Common Core State Standards Many of today s high school teachers like you are seeking new ways to engage students in science practices and help students learn more from lab activities ADI in Physics Volume 2 does all of this while also giving your students the chance to practice reading writing speaking and using math in the context of science

Argument-driven Inquiry in Fifth-grade Science Victor Sampson, Todd Hutner, Jonathon Grooms, Carrie Burt, Jennifer Jordan-Kaszuba, 2020-08-05 Are you interested in helping your elementary students learn the practices of science including constructing explanations and engaging in argument from evidence Argument Driven Inquiry in Fifth Grade Science will provide you with both the information and instructional materials you need to get started right away The book is a one stop source of expertise advice and investigations It s designed to help your fifth graders work the way scientists do while integrating literacy and math at the same time Argument Driven Inquiry in Fifth Grade Science is divided into two basic parts 1 An introduction to the stages of ADI from question identification data analysis and argument development to evaluating and

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