

# AP Physics 1 Algebra Based Notes

## Kinematics:

- Kinematics is the study of motion without considering its causes.
- Key equations:
  - Average velocity:  $v_{avg} = \Delta x / \Delta t$
  - Average acceleration:  $a_{avg} = \Delta v / \Delta t$
  - Displacement:  $\Delta x = v_{avg} * \Delta t$
  - Final velocity:  $v = v_0 + a * t$
  - Displacement:  $\Delta x = v_0 * t + (1/2) * a * t^2$
  - Final velocity squared:  $v^2 = v_0^2 + 2a * \Delta x$

## Dynamics:

- Dynamics is the study of motion in relation to the forces causing it.
- Newton's Laws of Motion:
  - First Law (Law of Inertia): An object at rest stays at rest, and an object in motion stays in motion with the same velocity unless acted upon by a net external force.
  - Second Law ( $F = ma$ ): The net force acting on an object is equal to the mass of the object multiplied by its acceleration.
  - Third Law (Action-Reaction): For every action, there is an equal and opposite reaction.

## Work, Energy, and Power:

- Work ( $W$ ) is done on an object when a force causes it to move through a displacement.
- Work is calculated as the dot product of force and displacement:  $W = F * d * \cos(\theta)$ .
- Energy is the capacity to do work. Two important forms of energy are:
  - Kinetic Energy (KE):  $KE = (1/2) * m * v^2$
  - Potential Energy (PE):  $PE = m * g * h$ , where  $g$  is the acceleration due to gravity and  $h$  is the height.
- The work-energy theorem states that the net work done on an object is equal to its change in kinetic energy:  $W_{net} = \Delta KE$ .
- Power ( $P$ ) is the rate at which work is done or energy is transferred:  $P = W / t$ .

## Linear Momentum and Collisions:

## 7 Alegebra Lab

**Amherst College**

## 7 Algebra Lab:

**Algebras, Rings and Modules** Michiel Hazewinkel, Nadezhda Mikhaïlovna Gubarenko, Vladimir V. Kirichenko, 2010 The main goal of this book is to present an introduction to and applications of the theory of Hopf algebras. The authors also discuss some important aspects of the theory of Lie algebras. The first chapter can be viewed as a primer on Lie algebras with the main goal to explain and prove the Gabriel Bernstein Gelfand Ponomarev theorem on the correspondence between the representations of Lie algebras and quivers. This material has not previously appeared in book form. The next two chapters are also primers on coalgebras and Hopf algebras respectively; they aim specifically to give sufficient background on these topics for use in the main part of the book. Chapters 4–7 are devoted to four of the most beautiful Hopf algebras currently known: the Hopf algebra of symmetric functions, the Hopf algebra of representations of the symmetric groups, although these two are isomorphic, they are very different in the aspects they bring to the forefront: the Hopf algebras of the nonsymmetric and quasisymmetric functions; these two are dual and both generalize the previous two and the Hopf algebra of permutations. The last chapter is a survey of applications of Hopf algebras in many varied parts of mathematics and physics. Unique features of the book include a new way to introduce Hopf algebras and coalgebras, an extensive discussion of the many universal properties of the functor of the Witt vectors, a thorough discussion of duality aspects of all the Hopf algebras mentioned, emphasis on the combinatorial aspects of Hopf algebras and a survey of applications already mentioned. The book also contains an extensive more than 700 entries bibliography. The main goal of this book is to present an introduction to and applications of the theory of Hopf algebras. The authors also discuss some important aspects of the theory of Lie algebras. The first chapter can be viewed as a primer on Lie algebras with the main goal to explain and prove the Gabriel Bernstein Gelfand Ponomarev theorem on the correspondence between the representations of Lie algebras and quivers. This material has not previously appeared in book form. The next two chapters are also primers on coalgebras and Hopf algebras respectively; they aim specifically to give sufficient background on these topics for use in the main part of the book. Chapters 4–7 are devoted to four of the most beautiful Hopf algebras currently known: the Hopf algebra of symmetric functions, the Hopf algebra of representations of the symmetric groups, although these two are isomorphic, they are very different in the aspects they bring to the forefront: the Hopf algebras of the nonsymmetric and quasisymmetric functions; these two are dual and both generalize the previous two and the Hopf algebra of permutations. The last chapter is a survey of applications of Hopf algebras in many varied parts of mathematics and physics. Unique features of the book include a new way to introduce Hopf algebras and coalgebras, an extensive discussion of the many universal properties of the functor of the Witt vectors, a thorough discussion of duality aspects of all the Hopf algebras mentioned, emphasis on the combinatorial aspects of Hopf algebras and a survey of applications already mentioned. The book also contains an extensive more than 700 entries bibliography.

**High school: a comprehensive manipulative program for algebra I** Henri Picciotto, 1990

RTI for

Reading at the Secondary Level Deborah K. Reed,Jade Wexler,Sharon Vaughn,2012-04-27 Grounded in the best current knowledge this book shows how to implement response to intervention RTI in middle and high school contexts Detailed guidelines are presented for teaching reading comprehension vocabulary and other aspects of literacy across the content areas and for providing effective interventions for students who require additional support The authors describe RTI procedures that are specifically tailored to the needs of struggling adolescent learners and that take into account the challenges and logistics of secondary level implementation The volume features 26 reproducible tools for planning assessment progress monitoring and multi tiered instruction the large size format facilitates photocopying

**Common**

**Core Math Activities, Grades 6 - 8** Karise Mace,2015-01-23 Centered around Common Core State Standards Common Core Math Activities features hands on lab activities that allow students to explore and gain deeper understanding of mathematical concepts From Wrapping Packages to Crime Scene Investigation students will be challenged to pull from previous mathematical knowledge and extend it as they investigate mathematical relationships and concepts This 96 page resource features teacher pages which include materials pacing and helpful tips for each lab Each activity is designed to help develops problem solving skills Mark Twain Media Publishing Company specializes in providing captivating supplemental books and decorative resources to complement middle and upper grade classrooms Designed by leading educators the product line covers a range of subjects including mathematics sciences language arts social studies history government fine arts and character

Becoming a Master Student David B. Ellis,2000 Tools techniques ideas illustrations exams skills resources and suggestions for success

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