

Grade 12 IEB Physical Science: Physics (Paper 1) SAG Definitions:

Section A: Kinematics:

- **Vector:** Physical quantity that has both magnitude and direction
- **Scalar:** Physical quantity that has magnitude only
- **Resultant vector:** Single vector which has the same effect as the original vectors acting together
- **Distance:** The length of path travelled
- **Displacement:** Change in position
- **Speed:** Rate of change of distance
- **Velocity:** Rate of change of position **OR** Rate of displacement **OR** Rate of change of displacement
- **Acceleration:** Rate of change of velocity

Section B: Newton's Laws:

- **Weight (F_g):** The gravitational force the Earth exerts on any object on or near its surface
- **Normal force (F_N):** The perpendicular force exerted by a surface on an object in contact with it
- **Frictional force due to a surface:** The force that opposes the motion of an object and acts parallel to the surface with which the object is in contact
- **Newton's first law:** An object continues in a state of rest or uniform velocity unless it is acted upon by a net or resultant force
- **Inertia:** The property of an object that causes it to resist a change in its state of rest or uniform motion
- **Newton's second law:** When a net force is applied to an object of mass, it accelerates in the direction of the net force. The acceleration is directly proportional to the net force and inversely proportional to the mass.
- **Newton's third law:** When object A exerts a force on object B, object B simultaneously exerts an oppositely directed force of equal magnitude on object A.

Physical Sciences Pterm3

James T. Shipman



Physical Sciences Pterm3:

Conceptual Physical Science Paul G. Hewitt, John Suchocki, Leslie A. Hewitt, 2002 An introduction to the physical sciences covering physics chemistry earth science and astronomy with chapter review questions exercises and suggested home projects and problems *Modern Physical Science* Alfred E. Friedl, Frank V. Kitko, Harry E. Tropp, 1991

Introduction to Physical Science, Revised Edition James Shipman, Jerry Wilson, Aaron Todd, 2009-08-14 An Introduction to Physical Science presents a survey of the physical sciences physics chemistry astronomy meteorology and geology for non science majors Topics are treated both descriptively and quantitatively providing flexibility for instructors who wish to emphasize a highly descriptive approach a highly quantitative approach or anything in between Time tested pedagogical tools address the needs of a range of learning styles concepts to be treated mathematically are consistently introduced from three perspectives definition word equation symbol notation Confidence Exercises follow in text Examples giving students an opportunity for immediate practice and reinforcement and updated Spotlight On features use figures photos or flowcharts to visually summarize important topics The Twelfth Edition includes new content and features that help students better visualize concepts master basic math and practice problem solving In response to instructor feedback new end of chapter problems appear throughout the text and sections on astronomy have been updated A dynamic technology package combines course management and testing resources as well as online support for students The Twelfth Edition is available in both a hardcover version and at a reduced price a paperback version giving students flexible options to meet their needs Important Notice Media content referenced within the product description or the product text may not be available in the ebook version **Loose Leaf Physical Science** Bill Tillery, 2011-01-13 Physical Science Ninth Edition is a straightforward easy to read but substantial introduction to the fundamental behavior of matter and energy It is intended to serve the needs of non science majors who are required to complete one or more physical science courses It offers exceptional straight forward writing complemented with useful pedagogical tools Physical Science introduces basic concepts and key ideas while providing opportunities for students to learn reasoning skills and a new way of thinking about their environment No prior work in science is assumed The text offers students complete coverage of the physical sciences with a level of explanation and detail appropriate for all students The sequence of chapters in Physical Science is flexible and the instructor can determine topic sequence and depth of coverage as needed The materials are also designed to support a conceptual approach or a combined conceptual and problem solving approach Along with the accompanying laboratory manual the text contains enough material for the instructor to select a sequence for a two semester course It can also serve as a text in a one semester physics and chemistry course An Introduction to Physical Science James T. Shipman, Jerry D. Wilson, Aaron W. Todd, 2005-01 An Introduction to Physical Science presents a survey of the physical sciences physics chemistry astronomy meteorology and geology for non science majors Topics are treated both descriptively and

quantitatively providing flexibility for instructors who wish to emphasize a highly descriptive approach a highly quantitative approach or anything in between The Eleventh Edition includes new content and features that help students better visualize concepts master basic math and practice problem solving In response to instructor feedback new end of chapter problems appear throughout the text sections on astronomy have been updated and a review of basic math is now available on the Student Web Site A dynamic technology package accompanies the text A new Blackboard WebCT course along with HM ClassPrep and HM Testing resources provide course management tools that help make class preparation and assessment more efficient and effective The new edition is available in both hardcover and at a reduced price paperback versions giving students flexible options to meet their needs New The end of chapter material features Visual Connections that challenge students to demonstrate relationships between key concepts by asking them to create a diagram or concept map Matching Questions test students ability to match appropriate statements with key terms Fill in the Blank Questions and Multiple Choice Questions are keyed to the appropriate chapter section New A review of basic math is available on the Student Web Site With step by step tutorials of basic math concepts the review enables students to quickly attain the level of competency necessary for success in the course Problems and exercises follow each tutorial allowing students to test themselves on what they have learned New The Blackboard WebCT course contains a transition guide from the Tenth Edition to the Eleventh Edition PowerPoint slides with lecture notes and art from the text and support for the lab manual New Hardcover and softcover versions of the text are available providing students with flexible options to meet their needs Updated The leading three astronomy chapters have been rearranged for better continuity and more even coverage Chapter 15 Place and Time has been placed first to provide better continuity with Chapters 16 and 17 Chapter 16 The Solar System now focuses mainly on the planets while material on planet moons comets and asteroids has been moved to Chapter 17 Moons and Other Solar System Objects Updated Located at the end of each chapter On the Web exercises require students to use Internet resources to research topics explore concepts and solve problems Follow up links have been updated on the Student Web Site

Physical Science Bill W. Tillery, 2008-09-01 Physical Science Eighth Edition is a straightforward easy to read but substantial introduction to the fundamental behavior of matter and energy It is intended to serve the needs of non science majors who are required to complete one or more physical science courses It offers exceptional straight forward writing complimented with useful pedagogical tools Physical Science introduces basic concepts and key ideas while providing opportunities for students to learn reasoning skills and a new way of thinking about their environment No prior work in science is assumed The text offers students complete coverage of the physical sciences with a level of explanation and detail appropriate for all students The sequence of chapters in Physical Science is flexible and the instructor can determine topic sequence and depth of coverage as needed The materials are also designed to support a conceptual approach or a combined conceptual and problem solving approach With laboratory studies the text contains enough material for the instructor to

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Principles of Physical Science Francis T. Bonner,Melba Phillips,Jane Raymond,1971 **An Introduction to Physical Science** James T. Shipman,2000-01-01 An Introduction to Physical Science James Shipman,Jerry D. Wilson,Charles A. Higgins,Omar Torres,2015-01-01 Consistent with previous editions of An Introduction to Physical Science the goal of the new Fourteenth edition is to stimulate students interest in and gain knowledge of the physical sciences Presenting content in such a way that students develop the critical reasoning and problem solving skills that are needed in an ever changing technological world the authors emphasize fundamental concepts as they progress through the five divisions of physical sciences physics chemistry astronomy meteorology and geology Ideal for a non science major s course topics are treated both descriptively and quantitatively providing instructors the flexibility to emphasize an approach that works best for their students Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

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