



KWAZULU-NATAL PROVINCE

EDUCATION
REPUBLIC OF SOUTH AFRICA

PHYSICAL SCIENCES

SCOPE FOR CONTROL TESTS AND EXAMINATION 2024: GRADE 11

MARCH CONTROLLED TEST			
PAPER	TOPICS	MARK	DURATION
ONE PAPER ONLY	Mechanics: - Vectors in two dimensions, Different kinds of forces, Force diagrams, Free-body diagrams, - Newton's First, Second and Third Laws, - Newton's Law of Universal Gravitation. Electricity and Magnetism: Electrostatics - Electric charge and charge transfer (grade 10) - Coulomb's Law, - Electric Fields.	100	2 hours

JUNE / MID-YEAR EXAMINATION			
NB: June / Mid-year examination will assess all the Term 1 and Term 2 work.			
PAPER	TOPICS	MARK	DURATION
PAPER 1	- Vectors in two dimensions - Newton's laws - Electrostatics - Electromagnetism - Electric circuits	75	1½ hours
PAPER 2	- Chemical bonding - Lewis diagrams and electron configuration - Writing of formulae - Molecular shapes - Electronegativity - Intermolecular forces	75	1½ hours

SEPTEMBER CONTROL TEST			
PAPER	TOPICS	MARKS	DURATION
ONE PAPER ONLY	- Quantitative aspects of chemical change - Energy and chemical change - Acids and bases - Ideal gases and thermal properties	100	2 hours

Physical Science Grade 11 Scope

K Morrison



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The Art of Teaching Science Jack Hassard, Michael Dias, 2013-07-04 The Art of Teaching Science emphasizes a humanistic experiential and constructivist approach to teaching and learning and integrates a wide variety of pedagogical learning tools. These tools involve inquiry and experimentation, reflection through writing and discussion, as well as experiences with students, science curriculum and pedagogy. Becoming a science teacher is a creative process, and this innovative textbook encourages students to construct ideas about science teaching through their interactions with peers, professionals, and instructors, and through hands-on activities designed to foster a collaborative, thoughtful learning environment.

Qualification Standards for Positions Under the General Schedule United States. Office of Personnel Management. Occupational Standards Branch, 1979 **Resources in Education**, 2001-04 *College Programs for High School Students*, 1973 *Salaries of Federal Government Employees* United States. Congress. Senate. Committee on Post Office and Civil Service, 1949 Considers legislation to establish a systematic basis for the grading of positions in the classified Federal service and to provide for fixing and adjustment of pay rates for Federal employees covered by the Classification Act. Also considers legislation to revise salary rates for postal employees **Forum**, 1982 Models of Science Teacher Preparation D.R. Lavoie, W.M. Roth, 2005-12-29 This unique edited book is a must for science educators who desire to improve upon traditional methods for science teaching and learning. It provides background, theoretical research, based frameworks, guidelines, and concrete examples for the implementation and assessment of innovative models of science learning, teaching, and professional preparation Galion Vocational Trade and Industrial Program, Galion, Ohio Galion (Ohio). High School, 1939 *School Science and Mathematics*, 1914 Research in Education, 1973 **School Life**, 1945 **Salaries of Federal Government Employees. Hearings ... on S. 558, S. 559, S. 1762, S. 1772, S. 1790 ... May 9, 11, 18, 20, and 25, 1949** United States. Congress. Senate. Committee on Post Office and Civil Service, 1949 **Discover Science: Teacher's annotated edition**, 1991 Science content helps develop the skills needed to understand how science works, learn new concepts, solve problems, and make decisions in today's technological society *The Sourcebook for Teaching Science, Grades 6-12* Norman Herr, 2008-08-11 The Sourcebook for Teaching Science is a unique, comprehensive resource designed to give middle and high school science teachers a wealth of information that will enhance any science curriculum. Filled with innovative tools, dynamic activities, and practical lesson plans that are grounded in theory, research, and national standards, the book offers both new and experienced science teachers powerful strategies and original ideas that will enhance the teaching of physics, chemistry, biology, and the earth and space sciences ENC Focus, 2001 **The Science Teacher**, 1993 SCC Library has 1964 cur **Social Sciences and Humanities Index**, 1916 Summary of Requirements in Teacher Education Curricula National Council for Accreditation of Teacher Education, 1958 **The Fort Wayne Community Schools Today and Tomorrow**, 1984 *Physical Sciences for High Schools* John Clarence Hogg, 1951

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