

KZN DEPARTMENT OF EDUCATION
EXAMINATION SCOPE FOR GRADES 10 AND 11
PHYSICAL SCIENCES - NOVEMBER 2023

GRADE 10

PAPER 1 (2 Hours)		PAPER 2 (2 Hours)	
CONTENT	MARKS	CONTENT	MARKS
<u>WAVES, SOUND AND LIGHT:</u> - Transverse pulses on a string/spring - Transverse waves and Longitudinal waves - Sound Waves - o Frequency and pitch - o Amplitude and loudness - o Ultrasound - Electromagnetic Radiation	30	<u>MATTER AND MATERIALS:</u> - Matter and classification - States of matter and the kinetic molecular theory - The atom - Periodic Table - Chemical Bonding	50
<u>ELECTRICITY & MAGNETISM:</u> - Electrostatics - Electric circuits	30	<u>CHEMICAL CHANGE:</u> - Physical and chemical change - Representing chemical change - Quantitative Aspects of chemical Change - o Concept of the mole (n), and molar mass (M). - o Calculating number of moles, mass and molar mass from $n = \frac{m}{M}$ - o Calculating number of moles and volume of a gas at STP from $n = \frac{V}{22,4 \text{ dm}^3}$ - o Concentration - o Percentage composition - o Empirical Formulae - o Water of crystallisation - o Stoichiometry - o Theoretical yield and percentage yield	50
<u>MECHANICS:</u> - Vectors and Scalars - Motion in one dimension - Instantaneous speed and velocity and the equations of motion - Graphs of motion - Energy	40		
TOTAL MARKS	100		100

Geography 2014 Grade 11 November Scope

**Helen Collett, Norma C. Winearls, Peter
J. Holmes**

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