



education

REPUBLIC OF SOUTH AFRICA

THE NATIONAL SCIENCE Olympiad (NSO) 2019
Category 1: School & Provincial Competitions - Stage 1
Mathematics and Natural Science Section

Mathematics Section (40%)

- All questions are worth 10
- All questions should be attempted
- All calculations should be shown and legibly written, if not, correct answers will not be awarded

Instructions and Observations of candidates

Candidates will receive the following instructions and observations before the competition:

- (i) The competition has segments A
- (ii) The competition has segment B
- (iii) The competition has segment C
- (iv) The correct answer is
- (v) The correct answer is
- (vi) The correct answer is
- (vii) The correct answer is
- (viii) The correct answer is

Group (100 or fewer pupils)	Number of pupils (100)	Segment A (100)	Segment B (100)	Segment C (100)	Segment A, B, C (100)	Segment A, B, C (100)	Segment A, B, C (100)
100							
100							
100							
100							

Analysis and interpretation of results and observations

The group below successfully achieved all group requirements. The school is
 producing all the requirements and has a strong focus on the results of the group.

Physical Sciences Grade Experiment Memorandum

Julia Schneider



Physical Sciences Grade Experiment Memorandum:

The Chemical News and Journal of Physical Science ,1918 **Nuclear Science Abstracts** ,1972 **Chemical News and Journal of Physical Science** ,1918 Nuclear Science Abstracts ,1964 *Memoirs of the National Academy of Sciences* ,1921 *Resources in Education* ,1989 **Primary Education** ,1899 Medical Examiner ,1876 **Research in Education** ,1970 *Reports from Commissioners* Great Britain. Parliament. House of Commons,1875 **Biennial Report of the Superintendent of Public Instruction of the State of Washington** Washington (State). Superintendent of Public Instruction,1901 *USSR.* ,1958 **Mines Memo** Canada Centre for Mineral and Energy Technology,1976 Vol for 1975 covers th Centre s activities for the two previous years Vol for 1976 is a review of 1975 *Index to Media and Materials for the Mentally Retarded, Specific Learning Disabled, Emotionally Disturbed* National Information Center for Special Education Materials,1978 Report[s]. Great Britain. Royal Commission on Scientific Instruction and the Advancement of Science,1873 The Scottish Educational Journal ,1921 Energy Research Abstracts ,1987 **Satellite Broadcasting: Implications for Foreign Policy** United States. Congress. House. Committee on Foreign Affairs. Subcommittee on National Security Policy and Scientific Developments,1969 Examines foreign policy implications of international use of radio and TV broadcasting from satellites Hearings United States. Congress. House. Committee on Foreign Affairs,1969 **Circular Relative to Textbooks for Elementary and High Schools** Saskatchewan. Dept. of Education,1971

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