

## GRADE 11 PHYSICAL SCIENCES

### NOVEMBER EXAMINATION PAPER 1: PHYSICS

#### SECTION A

#### QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER in your answer book.

- 1.1 An example of a vector quantity:
- velocity
  - displacement
  - speed
  - mass
- 1.2 A boy sits on a chair. Gravitational force pulls him down, the force that keeps him from moving down would be:
- friction
  - applied force
  - gravity
  - normal force
- 1.3 Two forces  $F_1$  and  $F_2$  have a net force of 120N if they act in the same direction and are balanced if they act in the opposite direction. The individual forces of  $F_1$  and  $F_2$  will be:
- 70N and 50N
  - 120N and 0N
  - 60N and 60N
  - 80N and 40N

Use the circuit diagram below to answer QUESTIONS 1.4 and 1.5



- 1.4 The voltage over the parallel resistors will be:
- 5V
  - 7V
  - 2V
  - 3V
- 1.5 The total resistance of the circuit if all resistors were identical with a resistance of 2Ω:
- 10Ω
  - 4,67Ω
  - 5Ω
  - 6Ω
- 1.6 A box is pushed forward with a force of 200N but does not move. A possible reason for this is that:
- frictional force is also 200N
  - frictional force is more than 200N
  - frictional force is less than 200N
  - none of the above
- 1.7 The diagram below shows a coil and a magnet with a pole P. A magnetic field is induced in the coil due to the motion of the magnet.



Which **ONE** of the following combinations will result in an induced magnetic field with **NORTH POLE** at point X?

	DIRECTION OF MOTION OF MAGNET	POLARITY OF P
A	into the coil	North
B	Up and down inside the coil	North
C	into the coil	South
D	Up and down inside the coil	South

# Physical Science Grade 11 November Paper 1 Exemplar

**N Noddings**



## Physical Science Grade 11 November Paper 1 Exemplar:

**The Mathematics Teacher Learning Teaching**, 1937 Project Independence Blueprint United States. Federal Energy Administration, 1974 What is Project Independence The sources and uses of energy in the United States have changed dramatically in the last several decades As a result in just one generation we have shifted from a position of domestic energy abundance to a substantial and continually growing reliance on foreign energy sources Project Independence is a wide ranging program to evaluate this growing dependence on foreign sources of energy and to develop positive programs to reduce our vulnerability to future oil cut offs and price increases *Resources in Education*, 2001-10 Nature Sir Norman Lockyer, 1916 **Japanese Journal of Applied Physics**, 2003 **Physiology in the American Context, 1850-1940** Gerald L. Geisson, 2013-05-27 A study of physiology in America this places the development of American physiology in the cultural context of the period Divided into three parts the book covers social and institutional history physiology in relation to other fields and instruments materials and techniques Journal of Gas Lighting and Water Supply, 1926 **Research in Education**, 1972 The Youth's Companion Nathaniel Willis, Daniel Sharp Ford, 1900 Includes music **Specifications Grading** Linda B. Nilson, 2023-07-03 In her latest book Linda Nilson puts forward an innovative but practical and tested approach to grading that can demonstrably raise academic standards motivate students tie their achievement of learning outcomes to their course grades save faculty time and stress and provide the reliable gauge of student learning that the public and employers are looking for She argues that the grading system most commonly in use now is unwieldy imprecise and unnecessarily complex involving too many rating levels for too many individual assignments and tests and based on a hairsplitting point structure that obscures the underlying criteria and encourages students to challenge their grades This new specifications grading paradigm restructures assessments to streamline the grading process and greatly reduce grading time empower students to choose the level of attainment they want to achieve reduce antagonism between the evaluator and the evaluated and increase student receptivity to meaningful feedback thus facilitating the learning process all while upholding rigor In addition specs grading increases students motivation to do well by making expectations clear lowering their stress and giving them agency in determining their course goals Among the unique characteristics of the schema all of which simplify faculty decision making are the elimination of partial credit the reliance on a one level grading rubric and the bundling of assignments and tests around learning outcomes Successfully completing more challenging bundles or modules earns a student a higher course grade Specs grading works equally well in small and large class settings and encourages authentic assessment Used consistently over time it can restore credibility to grades by demonstrating and making transparent to all stakeholders the learning outcomes that students achieve This book features many examples of courses that faculty have adapted to spec grading and lays out the surprisingly simple transition process It is intended for all members of higher education who teach whatever the discipline and regardless of rank as well as those

who oversee train and advise those who teach Specification grading promotes the following values and outcomes It 1 Upholds High Academic Standards2 Reflects Student Attainment of Skills and Knowledge 3 Motivates Students to Learn and to Excel4 Fosters Higher Order Cognitive Development and Creativity5 Discourages Cheating6 Reduces Student Stress7 Makes Students Feel Responsible for Their Grades8 Minimizes Conflict Between Faculty and Students9 Saves Faculty Time and Is Simple to Administer10 Makes Expectations Clear and Simplifies Feedback for Improvement11 Assesses Authentically12 Achieves High Inter Rater Agreement     **Soviet Physics** ,1980     Building Science Abstracts ,1928  
**Youth's Companion** ,1915     Project Independence United States. Federal Energy Administration,1975  
*Engineering* ,1928     *The Educational Times and Journal of the College of Preceptors* ,1870     *Mining Journal, Railway & Commercial Gazette* ,1908     *Scientific American* ,1897     *"The" Medical Times and Gazette* ,1885     Monthly Weather Review ,1907

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