



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 100N 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 30N
 - 100N and 0N
 - 60N and 40N
 - 80N and 20N

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 20Ω:
- 10Ω
 - 4/3Ω
 - 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 B?

	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

Grade 11 Physical Science Memo 2013

Sabine Kubesch



Grade 11 Physical Science Memo 2013:

Exekutive Funktionen und Selbstregulation Sabine Kubesch, 2016-08-08 Exekutive Funktionen sind jene Fähigkeiten des Menschen die das eigene Denken und Handeln steuern aber auch die eigenen Emotionen regulieren. Bei Kindern sind die exekutiven Funktionen noch nicht voll ausgeprägt, allerdings beeinflussen sie bereits entscheidend die Lernleistungen und die sozial-emotionale Entwicklung. Viele Befunde aus den Bereichen der Psychologie, Kognitiven Neurowissenschaften und Pädagogik sprechen dafür, dass den exekutiven Funktionen eine Schlüsselrolle sowohl hinsichtlich des Lern- und Schulerfolges als auch in Bezug auf Verhaltensauffälligkeiten und Störungen wie ADHS zukommt. Im vorliegenden Band werden erstmals die zentralen Texte aus Europa und den USA vorgelegt und in den hiesigen Bezugsrahmen eingeordnet. Zudem wird in diesem State of the Art Werk dargestellt, wie der konkrete Transfer in die pädagogische und schulische Praxis vollzogen werden kann. Die zweite erweiterte Auflage zeichnet sich durch über 150 Praxisbeispiele zum Training exekutiver Funktionen zum Erwerb von Willensstärke und Selbstkontrolle und zur Ausbildung der Selbstregulationsfähigkeit in der Familie aus. Mit Beiträgen von Roy F. Baumeister, Monika Brunsting, Adele Diamond, Armin Emrich, Torkel Klingberg, Walter Mischel, Daniel Siegel, Manfred Spitzer, Philip David Zelazo und vielen anderen mehr.

Psychology in Everyday Life David G. Myers, 2014-01-20 David Myers briefest introduction to psychology speaks to all students regardless of their background or level of preparedness with no assumptions made in the vocabulary examples or presentation. Students of all kinds are comfortable with Myers' manageable chapters which include careful connections to associated visuals, comparative tables and research-based pedagogy. For this edition there is something completely new to a Myers text. David Myers personally selected new coauthor Nathan DeWall's enthusiasm for teaching and writing about psychological science makes him uniquely suited to join the world's bestselling psychology textbook author. And with about 30 more pages of coverage, this edition has become an even stronger and more complete introduction to the science of psychology for courses of all kinds.

Spot on Physical Sciences M. Elfrink, 2008 **Physical Sciences**, 2013 **Everything Science**, **Physical Sciences in a Nutshell** Marion Mann, Renee Smith, 2000 **Focus on Physical Science**, Study And Master Physical Science Grade 11 Learner's Book Karin H. Kelder, 2006-10-01 Study Master Physical Sciences Grade 11 takes a fresh and innovative look at the world around us and links science to our everyday lives. All case studies and information on specialised fields, companies and institutions were personally researched by the author and verified by experts in those fields, companies and institutions.

Physical Science, 2009 *Physical Sciences* Santie Du Plessis, 2015 *Physical Science for Gr 11 : Physical Science for Grade 11 Theory, Exercises & Practical Investigations (CAPS)* J. M. Lucas, 2012 **Physical Sciences** S. Grussendorff, 2017 *Physical Sciences Explained* Ron Jones, Neil Berens, 2006 *Supplementary exercises, grade 11: physical science*, Physical Sciences Explained Ron Jones, Neil Berens, 2006 *Physical Sciences for All*, 2006 **Physical Sciences**, 2015 Doc Scientia Physical Sciences. Physics Ronel Bernardo, Hendry Du Plessis, Santie Du Plessis, Doc Scientia

Centre,2013 Shuters Physical Sciences , Physical Science Gr. 11 J. M. Lucas,D. Wright,2007*

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