

## 4.2 Information sheets – Paper 1 (Physics)

DATA FOR PHYSICAL SCIENCES: GRADE 12  
PAPER 1 (PHYSICS)

TABLE 1: PHYSICAL CONSTANTS

NAME	SYMBOL	VALUE
Acceleration due to gravity	$g$	$9,8 \text{ m}\cdot\text{s}^{-2}$
Universal gravitational constant	$G$	$6,67 \times 10^{-11} \text{ N}\cdot\text{m}^2\cdot\text{kg}^{-2}$
Speed of light in a vacuum	$c$	$3,0 \times 10^8 \text{ m}\cdot\text{s}^{-1}$
Planck's constant	$h$	$6,63 \times 10^{-34} \text{ J}\cdot\text{s}$
Coulomb's constant	$k$	$9,0 \times 10^9 \text{ N}\cdot\text{m}^2\cdot\text{C}^{-2}$
Charge on electron	$e$	$-1,6 \times 10^{-19} \text{ C}$
Electron mass	$m_e$	$9,11 \times 10^{-31} \text{ kg}$
Mass of the Earth	$M$	$5,98 \times 10^{24} \text{ kg}$
Radius of the Earth	$R_E$	$6,38 \times 10^6 \text{ m}$

TABLE 2: FORMULAE

## MOTION

$v_f = v_i + a\Delta t$	$\Delta x = v_i\Delta t + \frac{1}{2}a\Delta t^2$ OR $\Delta y = v_i\Delta t + \frac{1}{2}a\Delta t^2$
$v_f^2 = v_i^2 + 2a\Delta x$ OR $v_f^2 = v_i^2 + 2a\Delta y$	$\Delta x = \left(\frac{v_i + v_f}{2}\right)\Delta t$ OR $\Delta y = \left(\frac{v_i + v_f}{2}\right)\Delta t$

## FORCE

$F_{\text{net}} = ma$	$p = mv$
$F_{\text{fr}}^{\text{max}} = \mu_k N$	$F_{\text{fr}} = \mu_k N$
$F_{\text{net}}\Delta t = \Delta p$ $\Delta p = mv_f - mv_i$	$w = mg$
$F = \frac{Gm_1m_2}{d^2}$ OR $F = \frac{Gm_1m_2}{r^2}$	$g = \frac{GM}{d^2}$ OR $g = \frac{GM}{r^2}$

## WORK, ENERGY AND POWER

$W = F\Delta x \cos\theta$	$U = mgh$ OR $E_p = mgh$
$K = \frac{1}{2}mv^2$ OR $E_k = \frac{1}{2}mv^2$	$W_{\text{net}} = \Delta K$ OR $W_{\text{net}} = \Delta E_k$ $\Delta K = K_f - K_i$ OR $\Delta E_k = E_{kf} - E_{ki}$
$W_{\text{net}} = \Delta K + \Delta U$ OR $W_{\text{net}} = \Delta E_k + \Delta E_p$	$P = \frac{W}{\Delta t}$
$P_{\text{net}} = Fv_{\text{net}}$	

# Pratise Reading For Grade 10 Paper1 Final Exam Physics

**J Ma**



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## **Table of Contents Pratise Reading For Grade 10 Paper1 Final Exam Physics**

1. Understanding the eBook Pratise Reading For Grade 10 Paper1 Final Exam Physics
  - The Rise of Digital Reading Pratise Reading For Grade 10 Paper1 Final Exam Physics
  - Advantages of eBooks Over Traditional Books
2. Identifying Pratise Reading For Grade 10 Paper1 Final Exam Physics
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Pratise Reading For Grade 10 Paper1 Final Exam Physics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Pratise Reading For Grade 10 Paper1 Final Exam Physics
  - Personalized Recommendations
  - Pratise Reading For Grade 10 Paper1 Final Exam Physics User Reviews and Ratings
  - Pratise Reading For Grade 10 Paper1 Final Exam Physics and Bestseller Lists
5. Accessing Pratise Reading For Grade 10 Paper1 Final Exam Physics Free and Paid eBooks

- Pratise Reading For Grade 10 Paper1 Final Exam Physics Public Domain eBooks
  - Pratise Reading For Grade 10 Paper1 Final Exam Physics eBook Subscription Services
  - Pratise Reading For Grade 10 Paper1 Final Exam Physics Budget-Friendly Options
6. Navigating Pratise Reading For Grade 10 Paper1 Final Exam Physics eBook Formats
- ePub, PDF, MOBI, and More
  - Pratise Reading For Grade 10 Paper1 Final Exam Physics Compatibility with Devices
  - Pratise Reading For Grade 10 Paper1 Final Exam Physics Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Pratise Reading For Grade 10 Paper1 Final Exam Physics
  - Highlighting and Note-Taking Pratise Reading For Grade 10 Paper1 Final Exam Physics
  - Interactive Elements Pratise Reading For Grade 10 Paper1 Final Exam Physics
8. Staying Engaged with Pratise Reading For Grade 10 Paper1 Final Exam Physics
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Pratise Reading For Grade 10 Paper1 Final Exam Physics
9. Balancing eBooks and Physical Books Pratise Reading For Grade 10 Paper1 Final Exam Physics
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Pratise Reading For Grade 10 Paper1 Final Exam Physics
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Pratise Reading For Grade 10 Paper1 Final Exam Physics
- Setting Reading Goals Pratise Reading For Grade 10 Paper1 Final Exam Physics
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Pratise Reading For Grade 10 Paper1 Final Exam Physics
- Fact-Checking eBook Content of Pratise Reading For Grade 10 Paper1 Final Exam Physics
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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web the trend for electron affinity increases upwards through a group and rightwards along a period the noble gasses already have full octets so the increasing trend stops at the halogens and the noble gasses have extremely low values the element with the highest electron affinity is fluorine

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web directions use your notes to answer the following questions rank the following elements by increasing atomic radius carbon aluminum oxygen potassium oxygen carbon aluminum potassium rank the following elements by increasing

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web respond to the questions and prompts in the orange boxes atomic radius electron affinity electron cloud energy level group ion ionization energy metal nonmetal nucleus period periodic trends picometer valence electron do these before using the gizmo

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web jun 30 2023 major periodic trends include electronegativity ionization energy electron affinity atomic radius melting point and metallic character periodic trends arising from the arrangement of the periodic table provide chemists with an invaluable tool to quickly predict an element s properties

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web periodic trends straw lab objective to create a visual representation of the following periodic trends atomsize ionization energy and electronegativity atomic radius the size of an atom measured in either nanometers nm orangstroms Å

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web jan 28 2019 by mapping specific trends directly onto a blank periodic table the activity uses the periodic table as a foundational aspect of the major trends allowing for students to make connections between placement on the periodic table and a specific trend

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web you might need periodic table the first two ionization energies for beryllium are shown below be g be g e be g be 2 g e i 1 900 kj mol i 2 1757 kj mol which of the following identifies the most probable value for the third ionization energy for be and provides the best justification

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web the purpose of this lab is to introduce students to periodic trends it gives students an opportunity to explore the values of different properties for all elements in the periodic table to determine which properties of the elements follow a periodic trend

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web 1 name date per periodic trends lab periodic law states that when the elements are arranged in order of increasing atomic number there is a periodic repetition of their chemical and physical properties elements within the same group have the most similar chemical and physical properties although not identical

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web 1 rank the following elements by increasing atomic radius carbon aluminum oxygen potassium oxygen carbon aluminum potassium 2 rank the following elements by increasing electronegativity sulfur oxygen neon aluminum neon aluminum sulfur oxygen 3 why does fluorine have a higher ionization energy than iodine

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web simulation periodic trends answer key background in this investigation you will examine several periodic trends including atomic radius ionization energy and ionic radius you will

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web 1 how does atomic radius change as you move from left to right across a period explain your answer in terms of the number of protons in the nucleus 2 how does atomic radius change as you move from top to bottom in a group explain your answer in terms of the number of electron shells 3 on the representation of the periodic table below

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web periodic trends worksheet directions use your notes to answer the following questions rank the following elements by increasing atomic radius carbon aluminum oxygen potassium oxygen carbon aluminum potassium rank the following elements by increasing electronegativity sulfur oxygen neon aluminum

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web caragabriel preview chemistry test oct 7 11 43 terms misterlominyo preview terms in this set 25 each element has 3 numbers listed under it which value represents the atomic radius the first number below the diagram what are the units for the atomic radius pm picometers 10 negative twelve meters

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web mar 13 2023 across the periodic table sizes of atoms show the following trends with many irregularities size increases down a group the outermost electrons are in successively more extensive orbitals as n increases

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web similarities and differences among the elements give rise to so called periodic trends both across rows and within columns of the periodic table recognizing periodic trends in the physical and chemical properties of the elements is key to understanding the full value of the periodic table concepts periodic table periodic trends

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web question periodic trends straw lab the purpose of this lab is to create a visual representation of trends on the periodic table you will need answer the following questions and write a formal lab report use the information below to help guide you

through writing your lab report 1