

## 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

|                                                                 |                                              |
|-----------------------------------------------------------------|----------------------------------------------|
| $F_{\text{net}} = ma$                                           | $p = mv$                                     |
| $f_k^{\text{max}} = \mu_k N$                                    | $f_s = \mu_s N$                              |
| $F_{\text{net}}\Delta t = \Delta p$<br>$\Delta p = mv_f - mv_i$ | $w = mg$                                     |
| $F = \frac{Gm_1m_2}{d^2}$ 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 $W_{\text{net}} = \Delta E_k$<br>$\Delta K = K_f - K_i$ OR $\Delta E_k = E_{kf} - E_{ki}$ |
| $W_{\text{net}} = \Delta K + \Delta U$ OR $W_{\text{net}} = \Delta E_k + \Delta E_p$ | $P = \frac{W}{\Delta t}$                                                                                                 |
| $P_{\text{net}} = Fv_{\text{net}}$                                                   |                                                                                                                          |

# Physical Science Grade 12 November Grade12 Paper 1 Memorandum

**S Marginson**



## Physical Science Grade 12 November Grade12 Paper 1 Memorandum:

Resources in Education ,1998-07     **"A Revised and Intensified Science and Technology Curriculum Grades K-12 Urgently Needed for Our Future"** ,1983     The Christian Advocate ,1904     **Bulletin** ,1944     Monthly Catalog of United States Government Publications ,1992     *Monthly Catalogue, United States Public Documents* ,1993     **Nuclear Science Abstracts** ,1967     **Bulletin of the Atomic Scientists** ,1955-01 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world     *Energy Research Abstracts* ,1987     **The Bookseller** ,1905     **Research in Education** ,1973     *Christian Advocate and Journal and Zion's Herald* ,1904     *Bulletin of the Atomic Scientists* ,1981-08 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world     **Parliamentary Papers** Great Britain. Parliament. House of Commons,1916     *We Could Not Fail* Richard Paul,Steven Moss,2015-05-01 The Space Age began just as the struggle for civil rights forced Americans to confront the long and bitter legacy of slavery discrimination and violence against African Americans Presidents John F Kennedy and Lyndon Johnson utilized the space program as an agent for social change using federal equal employment opportunity laws to open workplaces at NASA and NASA contractors to African Americans while creating thousands of research and technology jobs in the Deep South to ameliorate poverty We Could Not Fail tells the inspiring largely unknown story of how shooting for the stars helped to overcome segregation on earth Richard Paul and Steven Moss profile ten pioneer African American space workers whose stories illustrate the role NASA and the space program played in promoting civil rights They recount how these technicians mathematicians engineers and an astronaut candidate surmounted barriers to move in some cases literally from the cotton fields to the launching pad The authors vividly describe what it was like to be the sole African American in a NASA work group and how these brave and determined men also helped to transform Southern society by integrating colleges patenting new inventions holding elective office and reviving and governing defunct towns Adding new names to the roster of civil rights heroes and a new chapter to the story of space exploration We Could Not Fail demonstrates how African Americans broke the color barrier by competing successfully at the highest level of American intellectual and technological achievement     *Bulletin of the Atomic Scientists* ,1997-07 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world     ERIC Educational Documents Index ,1966-69: Minor descriptors and author index ,1970     *Catalogue and Index of Contributions to North American Geology* Geological Survey (U.S.),1944     *Surveyor and Municipal and County Engineer* ,1910     *The Surveyor and Municipal and County Engineer* ,1911

The Top Books of the Year Physical Science Grade 12 November Grade12 Paper 1 Memorandum The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Physical Science Grade 12 November Grade12 Paper 1 Memorandum : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Physical Science Grade 12 November Grade12 Paper 1 Memorandum : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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stamm bestehend aus rücken brust korb bauch und becken schwanz und gliedmaßen vorder und hintergliedmaßen 2  
körperhöhlen brust bauch und beckenhöhle und ihr innenleben

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