



**KWAZULU-NATAL PROVINCE**

EDUCATION  
REPUBLIC OF SOUTH AFRICA

# **PHYSICAL SCIENCES**

## **SCOPE FOR CONTROL TESTS AND EXAMINATION 2024: GRADE 11**

| MARCH CONTROLLED TEST |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|
| PAPER                 | TOPICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MARK | DURATION |
| ONE PAPER ONLY        | <p><b>Mechanics:</b></p> <ul style="list-style-type: none"> <li>Vectors in two dimensions, Different kinds of forces, Force diagrams, Free-body diagrams,</li> <li>Newton's First, Second and Third Laws,</li> <li>Newton's Law of Universal Gravitation.</li> </ul> <p><b>Electricity and Magnetism: Electrostatics</b></p> <ul style="list-style-type: none"> <li>Electric charge and charge transfer (grade 10)</li> <li>Coulomb's Law,</li> <li>Electric Fields.</li> </ul> | 100  | 2 hours  |

| JUNE / MID-YEAR EXAMINATION                                                 |                                                                                                                                                                                                                                        |      |          |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|
| NB: June / Mid-year examination will assess all the Term 1 and Term 2 work. |                                                                                                                                                                                                                                        |      |          |
| PAPER                                                                       | TOPICS                                                                                                                                                                                                                                 | MARK | DURATION |
| PAPER 1                                                                     | <ul style="list-style-type: none"> <li>Vectors in two dimensions</li> <li>Newton's laws</li> <li>Electrostatics</li> <li>Electromagnetism</li> <li>Electric circuits</li> </ul>                                                        | 75   | 1½ hours |
| PAPER 2                                                                     | <ul style="list-style-type: none"> <li>Chemical bonding</li> <li>Lewis diagrams and electron configuration</li> <li>Writing of formulae</li> <li>Molecular shapes</li> <li>Electronegativity</li> <li>Intermolecular forces</li> </ul> | 75   | 1½ hours |

| SEPTEMBER CONTROL TEST |                                                                                                                                                                                                    |       |          |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|
| PAPER                  | TOPICS                                                                                                                                                                                             | MARKS | DURATION |
| ONE PAPER ONLY         | <ul style="list-style-type: none"> <li>Quantitative aspects of chemical change</li> <li>Energy and chemical change</li> <li>Acids and bases</li> <li>Ideal gases and thermal properties</li> </ul> | 100   | 2 hours  |

# Physical Science Exemplar Grd 11 2013 Mpumalanga

**SJ Ball**



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