

FINAL



KWAZULU-NATAL PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

PHYSICAL SCIENCES P2 (CHEMISTRY)

COMMON TEST

JUNE 2024

MARKING GUIDELINES

MARKS: 100

These marking guidelines consist of 10 pages.

Physical Science P2 Grade 2014 Exemplar

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$$\begin{pmatrix} 2 & 2 & 0 & 1 & 1 & 0 & 1 & 1 & 0 & 3 \\ 1 & 1 & 3 & 0 & 1 & 1 & 1 & 1 & 1 & 1 \end{pmatrix}$$
 right a
$$\begin{pmatrix} 2 & 0 & 1 & 1 & 2 & 1 & 1 & 1 & 0 & 1 & 3 & 1 & 1 & 0 & 0 & 1 & 1 & 3 & 1 & 1 & 5 \end{pmatrix}$$

$$5 \times 4$$

$$5 \times 4$$

$$4 \times 5$$

$$4 \times 5$$

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$$\begin{pmatrix} a & 1 & x & b & 1 & y & c & 1 & a & 2 \end{pmatrix}$$

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$$\begin{pmatrix} a & b & c & d \\ a & b & c & d \end{pmatrix}$$
 we first write it as
$$\begin{pmatrix} a & b & c & d \\ a & b & c & d \end{pmatrix}$$

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web so there are two quantities which can be found in a matrix minors and cofactors minors exist for each element of the matrix and are defined as the determinant of the matrix you get when you ignore the row and column of the element in question for example if my matrix is as follows
$$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 \end{pmatrix}$$

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