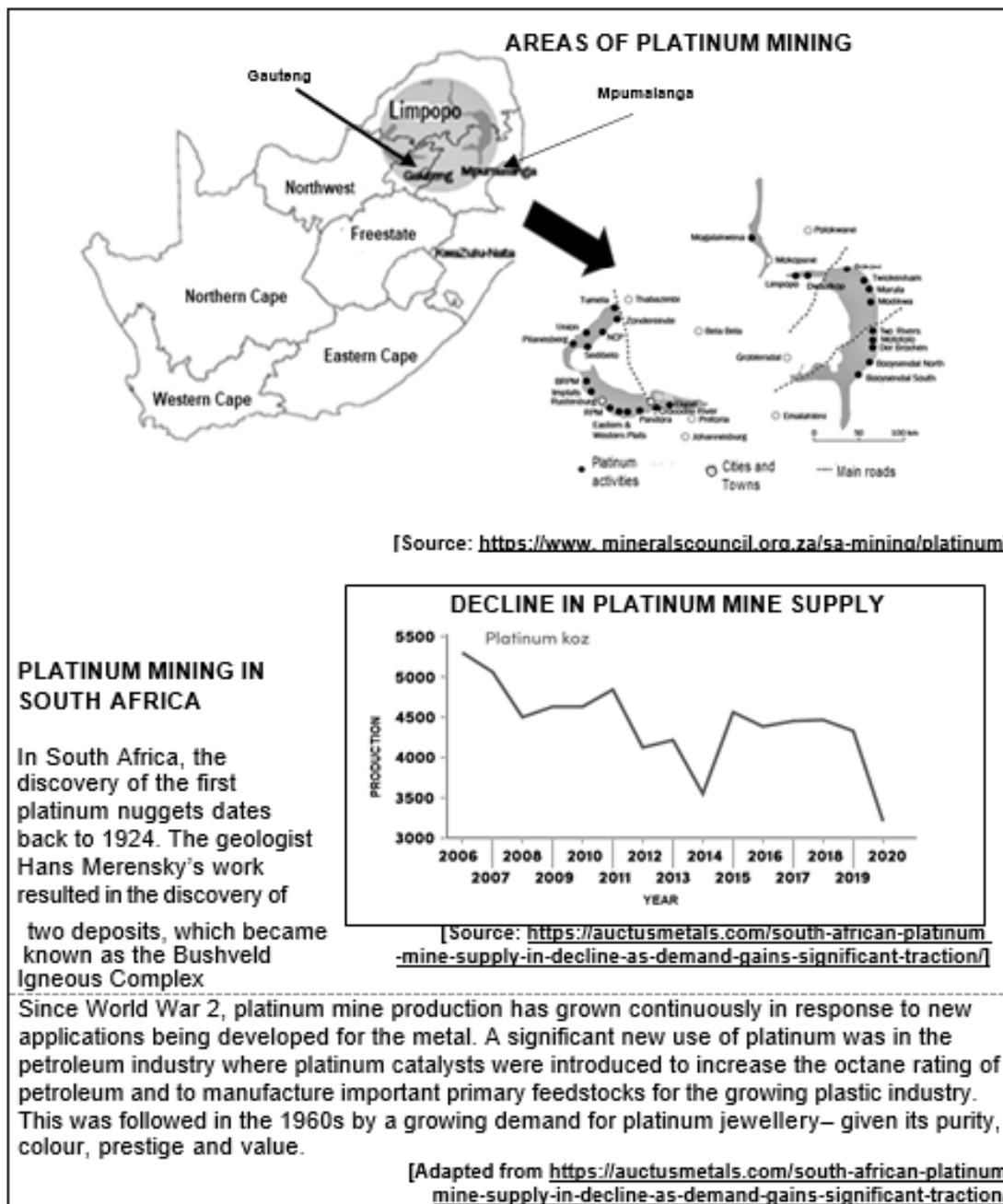


Platinum Mining

2.4 Refer to the infographic below on platinum mining



- | | | | |
|-------|--|---------|-----|
| 2.4.1 | Identify the THREE provinces, from the infographic, where platinum is mined. | (3 x 1) | (3) |
| 2.4.2 | Provide evidence from the infographic for the location of platinum mines in the provinces identified in QUESTION 2.4.1. | (1 x 2) | (2) |
| 2.4.3 | Identify TWO uses of platinum from the infographic. | (2 x 1) | (2) |
| 2.4.4 | In a paragraph of approximately EIGHT lines, suggest possible reasons for a decline in the production of platinum as shown in the infographic. | (4 x 2) | (8) |

Marking guideline

- 2.4.1 Identify the THREE provinces, from the infographic, where platinum is mined.

Limpopo (1)
Northwest (1)

Gauteng (1)
Mpumalanga (1)

(Any three) (3 x 1) (3)

- 2.4.2 Provide evidence from the infographic for the location of platinum mines in the provinces identified in QUESTION 2.4.1.

Platinum is part of the Bushveld Igneous complex (which stretched through these 3 provinces). (2) (1 x 2) (2)

- 2.4.3 Identify TWO uses of platinum from the infographic.

Petroleum industry (1)

Manufacturing of primary feedstocks for the growing plastics industry. (1)

Growing demand for platinum jewellery (1)

[Any TWO] (2 x 1) (2)

- 2.4.4 In a paragraph of approximately EIGHT lines, suggest possible reasons for a decline in the production of platinum as shown in the infographic.

Strikes because of low wages result in a decline (less) in production. (2)

Prolonged industrial action will reduce productivity. (2)
Absenteeism of workers because of illness e.g. COVID-19, reduced production (lockdown). (2)

Electricity shortages / loadshedding can slow down mining processes. (2)

The lack of investment (local and foreign) would reduce operational capital. (2)

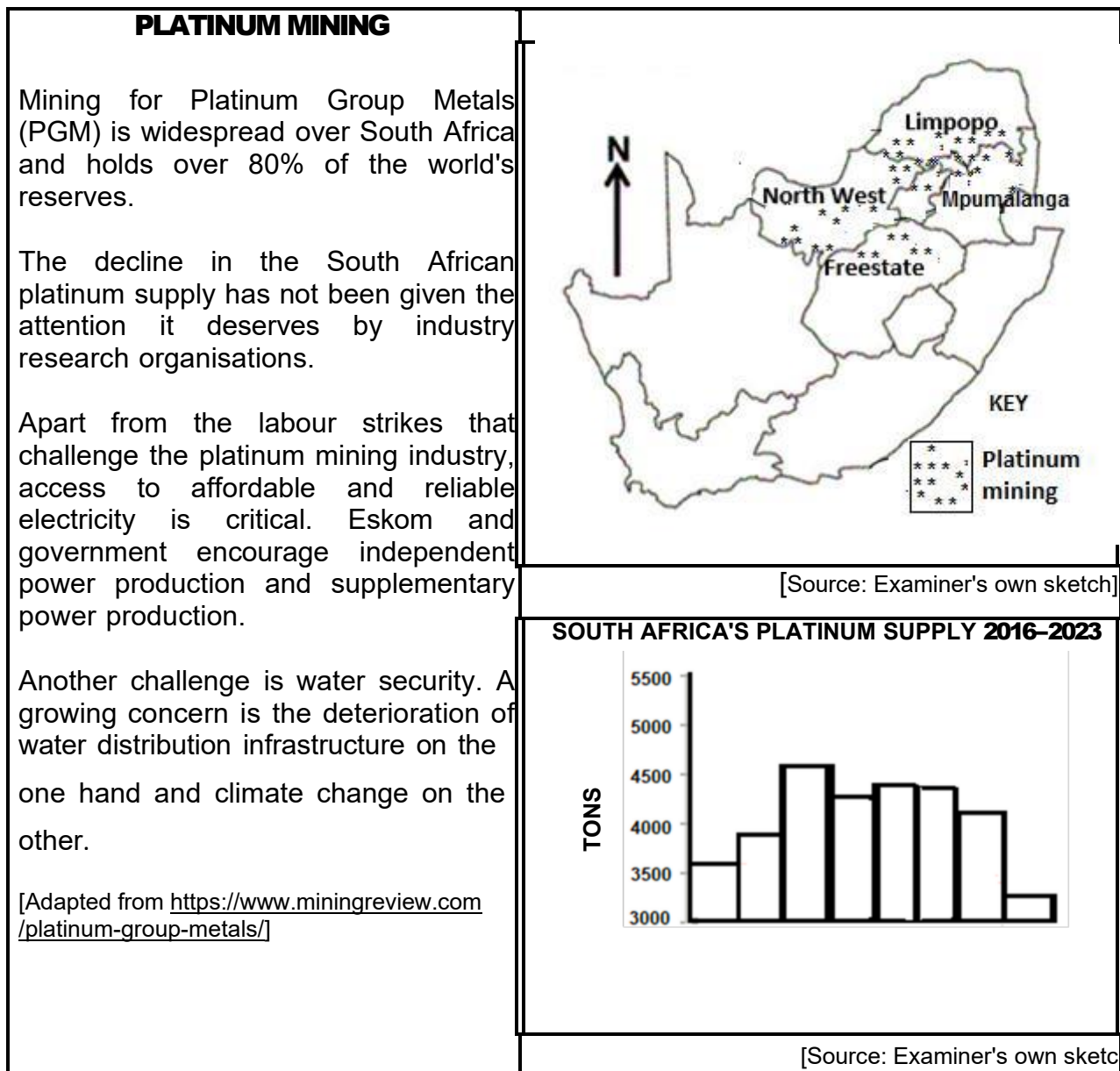
Lack of interest from investors due to political climate can lower mining. / nationalising mines (2)

High production costs will reduce the profit margin. (2)

The poor rand value will increase the demand which lowers the profit. / fluctuation of platinum prices (2)

[Any FOUR] (4 x 2) (8)

2.4 Refer to the infographic below on platinum mining.



2.4.1 What percentage of the world's platinum reserves does South Africa have? (1 x 1) (1)

2.4.2 Give evidence from the extract that platinum production in South Africa is influenced (affected) by a:

(a) Social factor

(b) Service delivery factor (2 x 1) (2)

- 2.4.3 Refer to the map and name TWO provinces where platinum is mined.
(2 x 1)(2)
- 2.4.4 Describe the general trend of the platinum supply between 2016 and 2018 and between 2020 to 2023, by referring to the graph.
(2 x 1) (2)
- 2.4.5 In a paragraph of approximately EIGHT lines, suggest strategies that government can implement (put in place) to address challenges of platinum production.
(4 x 2) (8)

Marking Guideline

2.4.1 (Over) 80 (%) (1) (1 x 1)(1)

2.4.2 (a) **SOCIAL FACTOR**

Labour strikes (1)

SERVICE DELIVERY FACTOR

Access to affordable and reliable electricity (1)

Water distribution infrastructure (1)

Water security (1)

[ANY ONE] (2 x 1) (2)

2.4.3 North West (1)

Mpumalanga (1)

Limpopo (1)

Free State (1)

Gauteng (1)

[ANY TWO] (2 x 1)(2)

2.4.4 2016– 2018 upward trend/increased (1)

2020– 2023 downward trend/decreased (1) (2 x 1)(2)

2.4.5 Creating partnerships/relationships (with communities\mine unions) regarding labour strikes (accept examples) (2)

Use renewable sources of energy (accept examples) (2)

Provision of greater access to basic services (accept examples) (2) Research relating to platinum mining (accept examples) (2)

Reduce investors' fears of nationalisation/ political instability (2) Ensure occupational safety of miners (2)

Educate miners on HIV/AIDS (2)

Improve infrastructure (accept examples) (2) Engage in profit sharing with mine workers (2) Sustainable minimum wage (2)

More advanced technology in mines (2) Upskilling of
mineworkers (2)

[ANY FOUR]

(4 x 2)
