

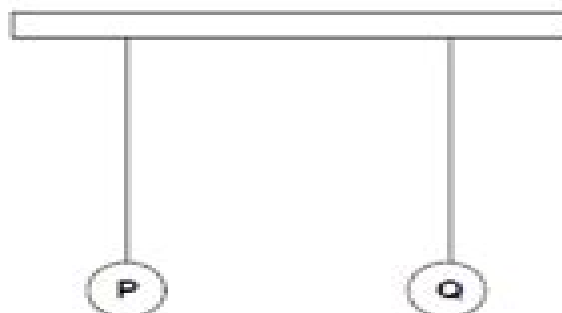
Question 4

- 4 A bullet is fired at $970 \text{ m}\cdot\text{s}^{-1}$ in an easterly direction. It reaches a target 200 m away, only 0,23 seconds later. Calculate:
- 4.1 the magnitude and direction of the acceleration of the bullet
(3)
- 4.2 the magnitude of the velocity with which the bullet strikes the target.
(3)

[06]

Question 5

Two identical insulated, graphite-coated polystyrene spheres are suspended from threads. The spheres are held a small distance apart. The charges on the Spheres **P** and **Q** are $-2,4 \text{ nC}$ and $+5,6 \text{ nC}$ respectively.



When the spheres are released they move towards each other.

- 5.1 Explain why the spheres move towards each other when they are released. (2)

The two spheres now touch each other and then separate.

- 5.2 Calculate the charge on each sphere after they touch and separate. (2)
- 5.3 Calculate the number of electrons transferred during contact. (4)
- 5.4 Which way will electrons move? Write only **from P to Q**, or **from Q to P**, or **neither way**? (1)
- 5.5 Explain your answer to Question 5.4. (2)

[11]

Physical Science Grade 10 Caps Exam Papers

Karin Nielsen-Saines



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Teaching Reading Comprehension to English Learners in Secondary Schools: A Research-Based Approach Cekiso, Madoda, Olifant, Florence, Mokhtari, Kouider, 2025-04-23 Teaching reading comprehension to English learners ELs in secondary schools presents unique challenges as these students must navigate the complexities of academic texts and the intricacies of language acquisition. Effective instruction requires a research-based approach that considers the diverse linguistic, cultural, and cognitive backgrounds of these learners. Recent studies highlight the importance of integrating strategies that build both language proficiency and content knowledge, essential for helping ELs develop the skills needed to comprehend complex materials. Fostering metacognitive awareness through strategies like summarizing, questioning, and making connections can empower students to become active and strategic readers. This approach recognizes the need for a supportive, inclusive classroom environment that encourages language development while promoting academic achievement in content areas. Further research may help educators provide English learners with the tools to thrive as capable readers in secondary school. *Teaching Reading Comprehension to English Learners in Secondary School: A Research-Based Approach* explores various aspects of teaching reading comprehension to English Second Language (ESL) learners in secondary schools. It examines current challenges and evidence-based strategies in reading comprehension. This book covers topics such as language learning, reading strategies, and teacher training, and is a useful resource for academicians, researchers, and scientists.

Physical Science Mr. Rohit Manglik, 2024-07-15 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high-quality study materials and resources. Specializing in competitive exams and academic support, EduGorilla provides comprehensive and well-structured content tailored to meet the needs of students across various streams and levels.

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The Chemical News and Journal of Physical Science, 1914 **Twenty-Two Hindsight** Mosiuoa Sekese, 2013-05-16

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