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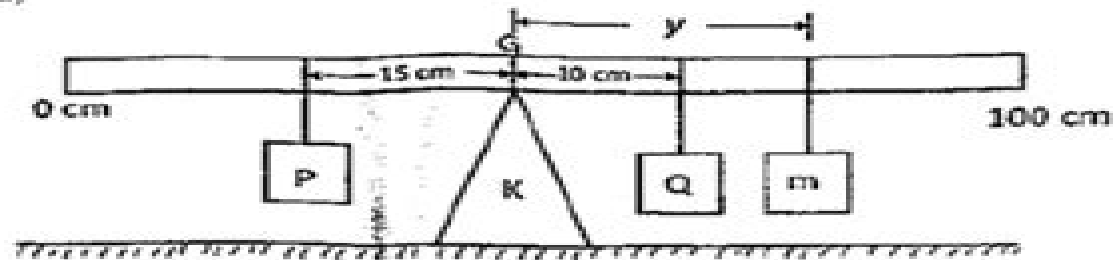
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Physics Paper 3 WASSCE (SC), 2023

Alternative A

Question 1A

(a)



You are provided with a metre rule, two loads, P and Q , a knife edge, K , a set of masses, m and a piece of string.

Use the diagram above as a guide to perform the experiment.

1. With no loads hanging on the metre rule, balance the metre rule horizontally on the knife edge. Record the position, G , of the knife edge on the balanced metre rule.
2. Suspend P securely at 15 cm from G , and Q securely at 10 cm from G . The positions of G , P and Q should not be altered throughout the experiment.
3. Using a mass, $m = 40$, balance the metre rule horizontally. Measure and record the distance, y , of m from G .
4. Evaluate m^{-1} .
5. Repeat the procedure for $m = 50$ g, 60 g, 70 g and 80 g. In each case, record the distance, y , and evaluate m^{-1} .
6. Tabulate the results.
7. Plot a graph with m^{-1} as ordinate and y as abscissa.
8. Determine the slope, s , of the graph.
9. Determine the value of y given that 15
10. From the graph, deduce the mass, m , that would produce a balance distance, .

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Albert A Gayle



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School Science Practical Work in Africa Umesh Ramnarain, 2020-06-01 School Science Practical Work in Africa presents the scope of research and practice of science practical work in African schools. It brings together prominent science educators and researchers from Africa to share their experience and findings on pedagogical innovations and research informed practices on school science practical work. The book highlights trends and patterns in the enactment and role of practical work across African countries. Practical work is regarded as intrinsic to science teaching and learning and the form of practical work that is strongly advocated is inquiry based learning which signals a definite paradigm shift from the traditional teacher dominated to a learner centered approach. The book provides empirical research on approaches to practical work, contextual factors in the enactment of practical work and professional development in teaching practical work. This book will be of great interest to academics, researchers and post graduate students in the fields of science education and educational policy.

WAEC in Review Benjamin Freeman Jr., 2014-11-07 WAEC in Review is a practical intervention strategy in transforming the weakening educational system of Liberia where academic excellence is unceasingly diminishing. LIPACE Pilot Study Guide is not only a landmark achievement in the educational history of Liberia but a remarkable stride towards the proper preparation of Liberian students for future diets of the WAEC exam. As a member of the National Committee of the West African Examinations Council and a Stakeholder in the Liberian Education System, I wish to recommend the use of this study guide to adequately prepare each and every Liberian student for future examinations, thereby setting the stage for an easy transition to the emerging West African Senior Secondary Examinations (WASSCE). I am explicitly confident that you will definitely find your journey through this guide very rewarding as you prepare to sit the next WAEC Exam. David S. Massaquoi Sr, director of Education, The Salvation Army Liberia Command Education Secretariat. Our students sit the exam in constant fear of proctors and supervisors. They know nothing about the exam and its structure and this fear leads to them failing massively. We need to build the confidence level of our students and help them to study hard and understand the roles of proctors and supervisors to stop the intimidation during the exam. Thanks to LIPACE and the Turning the Tide project, we have helped our students achieve an amazing achievement for the first time in the history of Gbarpolu County where all senior students successfully passed the exam. Lartey Bemah, principal of Bopolu Public School 2012/2013, Gbarpolu County, Liberia.

Artificial Intelligence in Education Andrew M. Olney, Irene-Angelica Chounta, Zitao Liu, Olga C. Santos, Igbert Bittencourt, 2024-07-01 This book constitutes the refereed proceedings of the 25th International Conference on Artificial Intelligence in Education (AIED 2024) held in Recife, Brazil, in July 8-12, 2024. Proceedings: The 49 full papers and 27 short papers presented in this book were carefully reviewed and selected from 334 submissions. The papers present results in high quality research on intelligent systems and the cognitive sciences for the improvement and advancement of education.

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