

1. (a) (i) Print vertical letters A - J in the upper case.
(ii) Print vertical numbers 1 - 0.

(5 marks)

- (b) Make freehand sketches of any three of the following tools:

- (i) claw hammer;
(ii) try-square;
(iii) tee-square;
(iv) hacksaw;
(v) trowel.



(15 marks)

2. (a) Divide a line 135 mm into a ratio of 3:4:5, hence use the lengths thus obtained to draw a triangle. (5 marks)

- (b) Figure 1 shows the outline for constructing a conical helix. The cone has a diameter of 50 mm and a height of 60 mm. Draw a right hand conical helix given that the lead = 35 mm. (15 marks)

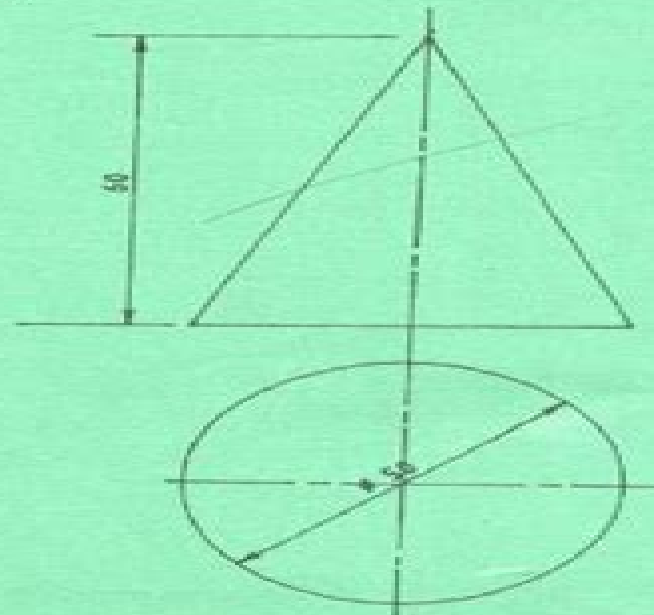
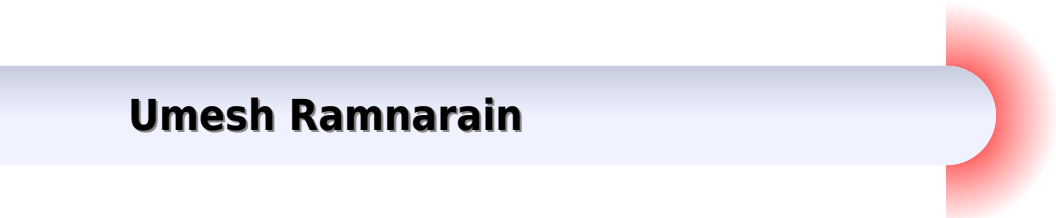


Fig. 1

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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.

Mathematics Education in East Africa Anjum Halai, Geoff Tennant, 2016-03-08 This Open Access book is a valuable resource for policymakers and practitioners as it brings insights mainly from developing countries where relatively less research activity takes place. It is also a valuable resource for courses in mathematics education in the teacher education colleges and departments of education in the sub-Saharan Africa region. In the increasingly global and technological world, mathematics is seen as a significant gatekeeper of opportunities for social and economic advancement and mobility. Hence, countries and development agencies in the broader sub-Saharan Africa region are looking towards increasing access to relevant and high quality secondary education as a lever towards economic development. Policy makers and other key decision makers in education look towards improvement in mathematics teaching and learning as a key focus in education reform. In the East Africa region, also, a number of initiatives have been taken at the national level in the respective countries to improve the quality of mathematics education. This book provides an in-depth comparative analysis of the developments and issues in mathematics education in Kenya, Tanzania, Rwanda, and Uganda and advances our understanding of the state of secondary mathematics education in East Africa.

Handbook of Research on Digital Content, Mobile Learning, and Technology Integration Models in Teacher Education Keengwe, Jared, 2017-07-13 While many facets of our lives are rapidly becoming more digital, educational institutions are now faced with the task of finding new and innovative ways to incorporate technology into the classroom. Examining the latest trends in digital tools provides a more effective learning environment for future generations. The Handbook of Research on Digital Content, Mobile Learning, and Technology Integration Models in Teacher Education is a pivotal scholarly reference source that outlines the most efficient ways for educators to employ technology enhanced lesson plans in their classroom. Featuring pertinent topics that include blended learning environments, student engagement, artificial intelligence, and learner centered pedagogy, this is an ideal resource for educators, aspiring teachers, and researchers that are interested in discovering recent trends and

techniques related to digital learning environments and technology enhanced classrooms International Perspectives on Teachers Living with Curriculum Change Martin Wedell, Laura Grassick, 2017-11-10 This book gives a voice to English language teachers faced with the challenges posed by English language curriculum change As a core component of national state system curricula in virtually every country in the world there has nevertheless been little research exploring how the millions of English teachers worldwide navigate the challenges posed by such curriculum changes This volume includes eleven stories from teachers based across every continent providing a global glimpse of how national English curriculum change projects have been experienced by classroom teachers who are commonly if erroneously viewed as mostly responsible for its implementation success or failure The final chapter synthesises these experiences and suggests wider implications for the development of curriculum change planning processes and how they might better support teachers attempts to achieve curriculum goals Edited and authored by leading experts in the field this ground breaking collection will be of interest to students and scholars of English language teaching teacher education curriculum change and education policy

Natural Science Education, Indigenous Knowledge, and Sustainable Development in Rural and Urban Schools in Kenya Darren M. O'Hern, Yoshiko Nozaki, 2014-05-05 Through a multi sited qualitative study of three Kenyan secondary schools in rural Taita Hills and urban Nairobi the volume explores the ways the dichotomy between Western and indigenous knowledge operates in Kenyan education In particular it examines views on natural sciences expressed by the students teachers the state s curricula documents and schools exam oriented pedagogical approaches O'Hern and Nozaki question state and local education policies and practices as they relate to natural science subjects such as agriculture biology and geography and their dismissal of indigenous knowledge about environment nature and sustainable development They suggest the need to develop critical postcolonial curriculum policies and practices of science education to overcome knowledge oriented binaries emphasize sustainable development and address the problems of inequality the center and periphery divide and social cultural and environmental injustices in Kenya and by implication elsewhere In an era of environmental crisis and devastation education that supports sustainability and survival of our planet is needed Within a broader sociopolitical context of post colonialism and globalization this volume points out possibilities and challenges to achieve such an education The authors propose a critical postcolonial approach that acknowledges the contextual and situational production of all knowledge and that de dichotomizes indigenous from Western scientific knowledge Eric Rico Gutstein Professor Curriculum and Instruction University of Illinois at Chicago USA

Knec Exam 2014 London Book Review: Unveiling the Power of Words

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