

CXC Physics Notes

Section A

SI Base Units

The SI (*Système International d'Unités*) is a globally agreed system of units, with seven base units. Formally agreed by the 11th General Conference on Weights and Measures (CGPM) in 1960, the SI is at the centre of all modern science and technology. The definition and realisation of the base and derived units is an active research topic for meteorologists with more precise methods being introduced as they become available.

There are two classes of units in the SI: **base units and derived units**. The base units provide the reference **used to define all the measurement units of the system**, whilst the derived units are products of base units and are used as measures of derived quantities:

- The seven SI base units, which comprise:
 - The ampere (A) - unit of measurement of electric current
 - The kilogram (kg) - unit of measurement of mass
 - The metre (m) - unit of measurement of length
 - The second (s) - unit of measurement of time
 - The kelvin (K) - unit of measurement of thermodynamic temperature
 - The mole (mol) - unit of measurement of amount of substance
 - The candela (cd) - unit of measurement of luminous intensity

Other units of physics, (joules, pascals etc.) are derived from these base units. It is therefore important to define the derived quantity properly as this will give the answer to a sharp minded physicist on what the derived unit is.

Example, work is defined as force that acts on a body and displaces it from the point of application to the direction of the force. What does this mean exactly?

Force = ma (mass \times acceleration); unit – kg m/s^2

Displacement = s (displacement is **different** from distance, the s is not seconds); unit – m

By the definition, it basically states that work is force acting on a body displacing it in a particular direction. Therefore the SI derived unit of work is the combination of force \times displacement which equates to:

$$\text{kg m/s}^2 \times m = \text{kg m}^2/\text{s}^2$$

Cxc Physics

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The World of Physics 2nd Edition John Avison, 2014-11 A clear and easy to follow textbook including material on forces machines motion properties of matter electronics and energy problem solving investigations and practice in experimental design
Physics - a Concise Revision Course for CXC Leslie Clouden, 1999 A concise well organised text with well annotated study diagrams

Exploring Science June Mitchelmore, 1999-04 Useful for the first three years of Secondary school this is a three book series It provides an introduction to the world of Science and is a helpful foundation for CXC separate sciences and CXC single award Integrated Science Written in clear English it is suitable for a range of abilities

CXC Physics Barry Jackson, Peter Whiteley, 1996 This text covers the whole of the CXC Physics syllabus The text provides clear explanations of concepts as well as lots of questions and practice exercises for school based assessment and exam preparation
Heinemann Physics for CXC Norman Lambert, Natasha Lewis dos Santos, Tricia A. Samuel, 2000 Heinemann

Physics for CXC is a lively accessible textbook written by Norman Lambert the well respected author and teacher and experienced teachers Natasha Lewis dos Santos and Tricia A Samuel The authors have drawn on their many years of teaching
Science Education International, 1999 CSEC Physics Aldaine Minott, 2016-09-30 **A Dictionary of**

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Mohammed, 2002 This reader presents an understanding of Caribbean feminist scholarship The essays deal with diverse topics including the role of women in Caribbean art the development of women's history and gendered history the representation of masculinity in Caribbean feminist thought and more
Proceedings of the 1990 Cross-Campus Conference on Education, 3rd-6th April 1990, Kingston, Jamaica, 1991 *Proceedings of the ... Cross-Campus Conference on Education*, 1990

Living on an Arc Brent Wilson, 2005-11-14 Brent Wilson fled the rat race of the Developed World and moved to Nevis one of the Caribbean's tiniest and least developed islands He took just a few simple possessions a suitcase filled with underwear a copy of Robinson Crusoe and some string Brent discovered that Caribbean life is not all sun rum and sand His arrival coincided with Hurricane Hugo and he encountered tarantulas in his toilet and scorpions in his bed He could barely understand the islanders and during his first years on Nevis grew close to a nineteen year old woman dead over three hundred years But Brent stuck it out while watching other hopefuls come and go beaten by the realities of tropical life Eventually he even managed to find that most unlikely of things a real live woman prepared to put up with him This is an account of Brent's years on Nevis and how he finally had to choose between Jacqui the woman he had found and Nevis the island he had come to love
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