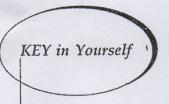


NEW SOLUTIONS, NEW MINDS.



REDSPOT PUBLISHING

495 \$ E



## ABOUT PHYSICSKEY, POINTS

8-x

## PhysicsKEY • POINTS

ABOUT (NEXT Guide) NICE-AIM TARGET GUIDE

TO UNLOCK THE CONTENTS IN THE OVERVIEW OF THE TOPIC.

TO SEARCH FOR NEXT SUBJECT.

aims to prepare students for the GCE 'O' Level examinations. The book covers the newly revised syllabus for Physics. Each chapter of the book consists of learning objectives, useful websites, overview of the chapter, revision notes, sample questions with answers, explanations and exam tips.

LEARNING OBJECTIVES

Learning objectives of each chapter based on the latest syllabus are given in this part. Students should make sure that they are able to meet all the expectations on them before they go for examinations.

USEFUL WEBSITES

Some useful websites are listed for students' reference and further research. The Java Applets and animations in some websites help students understand the concepts of the chapter.

OVERVIEW OF THE CHAPTER

Overview of the chapter gives students a full picture of the topic. It shows the students with the structure and all the key areas of the chapter.

REVISION NOTES

This part is featured by concise revision notes to help students concentrate on key points. All main points and formulae are presented to help students to consolidate their knowledge learnt in class.

\$TOP & THINK (SAMPLE QUESTIONS WITH ANSWERS AND EXPLANATIONS)

For each chapter, different types of questions appearing in the examination are included to enhance students' examination techniques. All these questions are provided with answers and explanations.

EXAMTIPS

Exam Tips in this book summarizes all of students' common mistakes, weaknesses and misconceptions shown in the past examinations. Some important reminders for students are also listed in this part.

I sincerely hope that this book can help students in their study of Physics. Finally, I would like to express my gratitude to the publisher in the preparation of this book and wish all students every success.

The Editor: K. L. Poon (B. Sc. (Hons), Dip. Ed.)

## CONTENTS

PART 1	GENERAL PHYSICS	
NO.1 I	Physical Quantities and Units	5
NO.2	KINEMATICS	19
NO.3	DYNAMICS	33
NO.4	MASS, WEIGHT AND DENSITY	46
NO.5	TURNING EFFECT OF FORCES	57
NO.6	Pressure	73
NO.7	ENERGY, WORK AND POWER	91
PART 2	THERMAL PHYSICS	
но.8	KINETIC MODEL OF MATTER	105
NO.9	TRANSFER OF THERMAL ENERGY	118
NO.10	Temperature	130
мо.11	THERMAL PROPERTIES OF MATTER	144
PART 3 I	WAVES	
NO.12	GENERAL WAVE PROPERTIES	161
NO.13	LIGHT	176
NO.14	ELECTROMAGNETIC SPECTRUM	197
NO.15	SOUND	204
PART 4	ELECTRICITY AND MAGNETISM	
NO.16	STATIC ELECTRICITY	218
NO.17	CURRENT ELECTRICITY	233
NO.18	D.C. Circuits	251
NO.19	PRACTICAL ELECTRICITY	266
NO.20	Magnetism	282
No.21	ELECTROMAGNETISM	301
NO.22	ELECTROMAGNETIC INDUCTION	312
NO.23	INTRODUCTORY ELECTRONICS	328
PART 5	NUCLEAR PHYSICS	
NO.24	Nucleus	346
NO.25	RADIOACTIVITY	353