

TABLE OF CONTENTS

CHAPTER	PAGE
I. MATTER AND ENERGY	1
II. PHYSICAL AND CHEMICAL CHANGE	4
III. ELEMENTS AND COMPOUNDS	9
IV. MIXTURES, SOLUTIONS AND COMPOUNDS	11
V. HYDROGEN	16
VI. OXYGEN	32
VII. STUDY OF WATER	26
VIII. STUDY OF AIR	29
IX. CONSERVATION OF MASS	32
X. OXIDATION AND REDUCTION	34
XI. STUDY OF SULPHUR	38
XII. STUDY OF SODIUM	44
XIII. ACIDS, BASES AND SALTS	47
XIV. LAW OF DEFINITE PROPORTIONS	50
XV. THE ATOMIC THEORY	52
XVI. CHEMICAL SYMBOLS AND FORMULÆ	56
XVII. ATOMIC WEIGHTS	59
XVIII. CHEMICAL NAMES	61
XIX. IONISATION	63
XX. EQUIVALENCE	71
XXI. VALENCY	73
XXII. GRAPHIC FORMULÆ	76
XXIII. EQUATIONS	77
XXIV. NITROGEN	80
XXV. NITRIC ACID	82
XXVI. OXIDES OF NITROGEN	85
XXVII. AMMONIA	88
XXVIII. QUANTITATIVE RESULTS IN CHEMICAL ACTION	93
XXIX. RATE OF CHEMICAL REACTION	96
XXX. HYDROGEN CHLORIDE	99
XXXI. CHLORINE	102
XXXII. CARBON	109
XXXIII. OXIDES OF CARBON	114
XXXIV. CARBIDES	124