## **Contents**

	Preface v	
1	INTRODUCTION	1
	for the individual; for the classroom teacher; workshops, inservice education, and courses; general features	
2	A METRIC AMERICA	5
	what are the advantages of the metric system?; what are the disadvantages of the metric system?	
3	MEASUREMENT	9
	what is measurement?; direct and indirect measures; measurement is approximate; nonstandard and standard units; the metric system	
4	THE TEACHING OF MEASUREMENT	13
	go metric?; Piaget and measurement; metric curriculum ideas	
5	THE DO'S AND DON'TS OF THE METRIC SYSTEM	21
	what are the measurement units?; mass—weight	
6	ACTIVITIES	27
	how to use the activities  Section I, Linear Measurement 33	

Section V, Temperature 238 Section VI, Culminating Activities 261 291 7 IDEAS five-minute fillers; class activities; bulletin boards 309 8 THE METRIC SYSTEM IN THE UNITED STATES history, metric historical dates g DESCRIPTION OF DERIVED UNITS 317 speed; velocity; acceleration; force; work; power; energy; pressure; density; specific gravity; mole; degrees kelvin; heat; light 321 10 CAREERS AND METRIC Appendix A WORKING WITH POWERS OF 324 10 multiplication; division; numbers between 1 and 0: scientific notation; metric conversions Appendix B A DIAGNOSTIC TEST OF THE 330 **METRIC SYSTEM** Appendix C A METRIC MASTERY TEST 337 Appendix D METRIC BIBLIOGRAPHY 340 Appendix E METRIC SUPPLIERS Appendix F CONVERSION TABLES 366 approximate conversions; more precise conversions

Section II, Area and Perimeter

Section IV, Volume and Capacity

Section III, Mass

94

195

Index

375