Table of Contents

Pre	face to the Translation
Pre	face to the Book
1.	The Significance of an Open-Ended Approach
2.	An Example of Lesson Development
3.	Developing Lesson Plans
4.	Examples of Teaching in Elementary Schools The Format of Each Section, 36 Introduction to the Idea of Proportion, 37 The Classification of Solid Figures, 45 Ranking Teams in a Marathon Race, 53 The Classification of Graphs, 61 Review of the Learning of Proportion, 66 Making a Group of Related Figures, 69 Enlarging Figures, 72 Pascal's Triangle, 76 Interim Results of Baseball Games, 81
5.	Examples of Teaching in the Lower Secondary Schools

6.	Examples of Teaching in the Upper Secondary Schools
	The Format of Each Section, 123
	Properties of the Multiplication Table, 124
	Common Properties among a Group of Graphs, 139
	Necessary Condition and Sufficient Condition, 147
	Equations of Straight Lines, 153
	Rules in a Table of a Group, 156
	A Beauty Contest for Pets, 162
7.	Round-Table Discussion to Review the Project
	How to Evaluate, 167
	How to Incorporate This Teaching Style into the Teaching Program, 169
	Future Problems, 172