

Contents

Foreword

1. Cognitive Development and Social Variables: The Problem	1
Failure at the beginning of school life: The problem of relating psychological and social factors	1
The role of social factors in development	9
Research perspectives	19
Outline of research	27
 2. The Conservation of Quantities of Liquids: The Effect of Social Interaction on Individual Conservation Behaviour	 37
Cognitive structuring in group performance	37
The effect of interaction on individual cognitive structuring	39
The conservation of liquids: Experiment I	42
Results	48
Discussion of results	64
Conclusion	65
 3. The Conservation of Quantities of Liquids: The Effect of Social Interaction on Individual Cognitive Structure	 69
Experiment II	70
Results	81
Conclusions	114
 4. The Conservation of Number: The Differential Effect of the Subject's Initial Level of Competence	 118
The "prerequisites" for cognitive re-structuring: The notion of minimal competence	118
Experiment III	119
Results	128
Conclusions	143

5. The Effect of Interaction with Less Advanced Partners and the Role of Conflicting Centrations	147
Progress following interaction with a less advanced partner: copying geometrical shapes	149
Results	157
Cognitive development and conflicting centrations	162
6. Results in a Sociological Perspective	169
General discussion of results	169
A sociological perspective	180
7. Future Research	191
References	197
Subject Index	205