

TABLE OF CONTENTS

Executive Summary	1
1 Looking at Mathematics and Learning	15
2 The State of School Mathematics in the United States	31
3 Number: What Is There to Know?	71
4 The Strands of Mathematical Proficiency	115
5 The Mathematical Knowledge Children Bring to School	157
6 Developing Proficiency with Whole Numbers	181
7 Developing Proficiency with Other Numbers	231
8 Developing Mathematical Proficiency Beyond Number	255
9 Teaching for Mathematical Proficiency	313
10 Developing Proficiency in Teaching Mathematics	369
11 Conclusions and Recommendations	407
Biographical Sketches	433
Index	441