

1. Record Nr.	UNINA9910633916803321
Titolo	Mathematical Creativity : A Developmental Perspective // edited by Scott A. Chamberlin, Peter Liljedahl, Miloš Savi
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-031-14474-0
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (252 pages)
Collana	Research in Mathematics Education, , 2570-4737
Disciplina	510.71
Soggetti	Mathematics - Study and teaching Mathematics Art - Study and teaching Special education Mathematics Education Creativity and Arts Education Special and Gifted Education
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1. Creativity and Mathematics: A Beginning Look -- Chapter 2. Creativity in Mathematics: an Overview of More than 100 Years of Research -- Chapter 3. Mathematical creativity and society -- Chapter 4. Organizational framework for book and conceptions of mathematical creativity -- Chapter 5. Commentary on section -- Chapter 6. Mathematical Creativity Research in the Elementary Grades -- Chapter 7. Literature Review on Empirical Findings on Creativity in Mathematics among Secondary School Students -- Chapter 8. Mathematical Creativity at the Tertiary Level: A Systematic Review of the Literature -- Chapter 9. An introduction and a commentary -- Chapter 10. Now You See It, Now You Don't: Why the choice of theoretical lens matters when exploring children's creative mathematical thinking -- Chapter 11. The creative mathematical thinking process -- Chapter 12. Group Creativity -- Chapter 13. "Creativity is Contagious" and "Collective": Progressions of Undergraduate Students' Perspectives on Mathematical Creativity -- Chapter 14. The role of creativity in teaching mathematics online --

Sommario/riassunto

This book is important and makes a unique contribution in the field of mathematics education and creativity. The book comprises the most recent research by renowned international experts and scholars, as well as a comprehensive up to date literature review. The developmental lens applied to the research presented makes it unique in the field. Also, this book provides a discussion of future directions for research to complement what is already known in the field of mathematical creativity. Finally, a critical discussion of the importance of the literature in relation to development of learners and accordingly pragmatic applications for educators is provided. Many books provide the former (2) foci, but omit the final discussion of the research in relation to developmental needs of learners in the domain of mathematics. Currently, educators are expected to implement best practices and illustrate how their adopted approaches are supported by research. The authors and editors of this book have invested significant effort in merging theory with practice to further this field and develop it for future generations of mathematics learners, teachers and researchers.
