

1. Record Nr.	UNINA9910795374303321
Autore	Andreescu Titu <1956-, >
Titolo	Awesome math : teaching mathematics with problem based learning // Titu Andreescu, Kathy Cordeiro and Alina Andreescu
Pubbl/distr/stampa	San Francisco, California : , : Jossey-Bass, , [2020] ©2020
ISBN	1-119-57570-2 1-119-57571-0
Descrizione fisica	1 online resource (268 pages)
Disciplina	370
Soggetti	Mathematics - Study and teaching (Secondary) Problem-based learning Education
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Rewards for problem-based approach : range, rigor, and resilience -- Maximize learning : relevance, authenticity, and usefulness -- Creating a math learning environment -- What is the telos? -- Gains and pains with a problem-based curriculum -- Five steps to problem-based learning -- The three C's : competitions, collaboration, community -- Mini-units.
Sommario/riassunto	Awesome Math builds on the popular growth mindset by focusing on team-based problem solving. Applying a problem-solving approach to the education process develops the skills necessary to think critically, creatively, and collaboratively. This book will help teachers and educators form lifelong communities for their students that will expose them to the collaborators they can network with in the future. Students need to move beyond the calculus trap and study the areas of mathematics most of them will need in the modern world and problem solving is an efficient vehicle to get them where they need to go. The book will cover: curiosity; critical thinking, and creativity; getting into the mathemize mindset; coaching mathletes and thinkers; math as a team sport; developing a community through problem solving; creating lesson plans; identifying and developing resources.

