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covers derivatives and integrals of exponential and logarithmic functions related rates and volumes and more provides unique mathematical challenges to engage students

q what do feather boas cookies and paper shredders have in common a they are all ingredients that have the potential to help your undergraduate students understand a variety of mathematical concepts in this book 43 faculty from a wide range of institutional settings share a total of 64 hands on activities that allow students to physically engage with mathematical ideas ranging from the basics of precalculus to special topics appropriate for upper level courses each learning activity is presented in an easy to read recipe format that includes a list of supplies a narrative briefly describing the reasons logistics and helpful hints for running the activity and a page that can be used as a handout in class purchase of the book also includes access to electronic printable versions of the handouts with so many activities it might be hard to decide where to start for that reason there are four indices to help the reader navigate this book a concept index a course index an author index and a main ingredient index in addition to providing activities for precalculus calculus commonly required mathematics courses for majors and more specialized upper level electives there is also a section describing how to modify many of the activities to fit into a liberal arts mathematics class whether you are new to using hands on activities in class or are more experienced the author s hope that this book will encourage and inspire you to explore the possibilities of using more hands on activities in your classes bon appetit

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coding theory language theory and graph theory discusses the concept of computability and decideability includes concise coverage of calculus probability and statistics matrices complex numbers and quaternions

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