



## Exploratorium Guide to Scale and Structure: Activities for the Elementary Classroom

By Kluger-Bell, Barry; School in the Exploratorium

Heinemann, 1995. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Teaching Scale and Structure: Nuts and Bolts; Unit Planning; A Sample Unit for Fifth Grade; Classroom Management; Questioning Strategies; Assessment The Physics and Engineering of Structure Building Up: General Building; Straws and Pins--Building Up; Toothpicks and Clay; Clay Towers; Garden Poles--Building Up Building Out: Straws and Pins--Building Out; Clay Bridges; Paper Bridges; Garden Poles--Building Out Building with Newspaper: Exploring Materials; Exploring Joints; Newspaper Bridges Balancing Acts: Four-Foot Balance Board I; Four-Foot Balance Board II; Little Balance Board; Two-Dimensional Balance; Center-of-Mass; Three Dimensional Balance; Body Balance; Planks on Scales The Mathematics of Scale Area Activities; Introduction to Cubes; Growing Cubes; Shrinking Cubes; Cylinders and Scale; Cones and Scale; Fruit and Vegetable Area; Perimeter/Area The Effect of Scale on Structure Skewers and Garden Poles--Building Up; Skewers and Garden Poles--Building Out; Scaled Newspaper Structures; Clay Beams and Columns; Water Drop Pennies; Water Domes; Exploring Water Drops; Floating Pins and Paper Clips Appendixes :A . Glossary B. Resource Guide C. Blank Charts for Mathematics of Scale Activities D. Sample Science Record Sheets.



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