



Teaching Student-Centered Mathematics: Grades K-3

John A. Van de Walle, Lou Ann H. Lovin

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Teaching Student-Centered Mathematics: Grades K-3. John A. Van de Walle, Late of Virginia Commonwealth University. LouAnn H. Lovin, James Madison University. The student-centered approach will result in successful math students, making these books indispensable for K-3 classroom teachers! Series. This product is part of the following series. Click on a series title to see the full list of products in the series. Teaching Student-Centered Mathematics Series. Features. Numerous problem-based activities in every content chapter are a fantastic resource for in-service teachers. "Big Ideas" provide clear and succinct explanations of the most critical concepts in K-3 mathematics. Mathematics kindergarten to grade 9. Introduction. Students learn by attaching meaning to what they do, and they need to construct their own meaning of mathematics. This meaning is best developed when learners encounter mathematical experiences that proceed from the simple to the complex and from the concrete to the abstract. Students must learn to recognize, extend, create and use mathematical patterns. Patterns allow students to make predictions and justify their reasoning when solving routine and nonroutine problems. Learning to work with patterns in the early grades helps students develop algebraic thinking, which is foundational for working with more abstract mathematics in higher grades. RELATIONSHIPS.

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Division for Teaching Mathematics in Grades 3–5. Reston, VA: National Council of Teachers of Mathematics. Parrish, S. (2010). Number Talks: Helping Children Build Mental Math and Computation Strategies, Grades K–5. Sausalito, CA: Math Solutions Publications. Peterson, P.L., Fennema, E., and Carpenter, T. (1989). *Using Knowledge of How Students Think About Mathematics*. (2006). *Teaching Student-Centered Mathematics, Grades K–3*. Boston: Pearson Education. Van de Walle, J., K. Karp, J. Bay-Williams. (2010). *Elementary and Middle School Mathematics: Teaching Developmentally*, 7th ed. Boston: Pearson Education.

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