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**Magnifying mathematics with digital microscopes.**

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Summary: This article describes a series of activities for intermediate-level students to explore ratio reasoning using a digital microscope. In the Common Core State Standards, this subject is addressed for sixth- and seventh-grade students, although this type of reasoning should be introduced at a younger age. Thus, the authors designed this set of activities and then implemented them with a group of fourth-graders. The lesson was well-received and established a foundation for future development of ratio reasoning.

*Classification:* F82 F72

*Keywords:* proportion; ratio; proportional reasoning; student activities; discovery learning; real-life mathematics; microscope; measurement; magnification