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Choice of notation in the process of abstraction.

Ubuz, Behiye (ed.) et al., CERME 8. Proceedings of the eighth congress of the European Society of Research in Mathematics Education, Antalya, Turkey, February 6–10, 2013. Ankara: Middle East Technical University (ISBN 978-975-429-315-9). 1526-1535 (2013).

Summary: This paper focuses on the notation invented and used by students in a study concerning the process of abstraction. Participants were asked to identify the symmetries of a square, and to further investigate the various properties of the group formed under composition of the identified elements. Particular attention will here be paid to the differences in approach by academic track and vocational track high-school students in embracing the task, a difference which appeared to stem largely from the creation and use of notation for representing the members of the group.

Classification: C54 H44 G44 E44

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