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Ted Stanford* (stanford@nmsu.edu). *The Properties of Addition and Multiplication*. Preliminary report.

The Common Core State Standards put a strong emphasis on the properties of operations and their relation to computation and sense-making. However, for many teachers and educators, "properties" are not naturally as central to understanding operations as they are to mathematicians. How to bridge this gap? I will argue two points. First, "properties" should be understood more broadly than just the standard ones with names (commutative, distributive, etc). Second, some properties are more important than others, and deserve more instructional time and attention. I will approach these two points from several directions: theorems, models, computations, applications, and common student misconceptions. (Received February 11, 2014)