

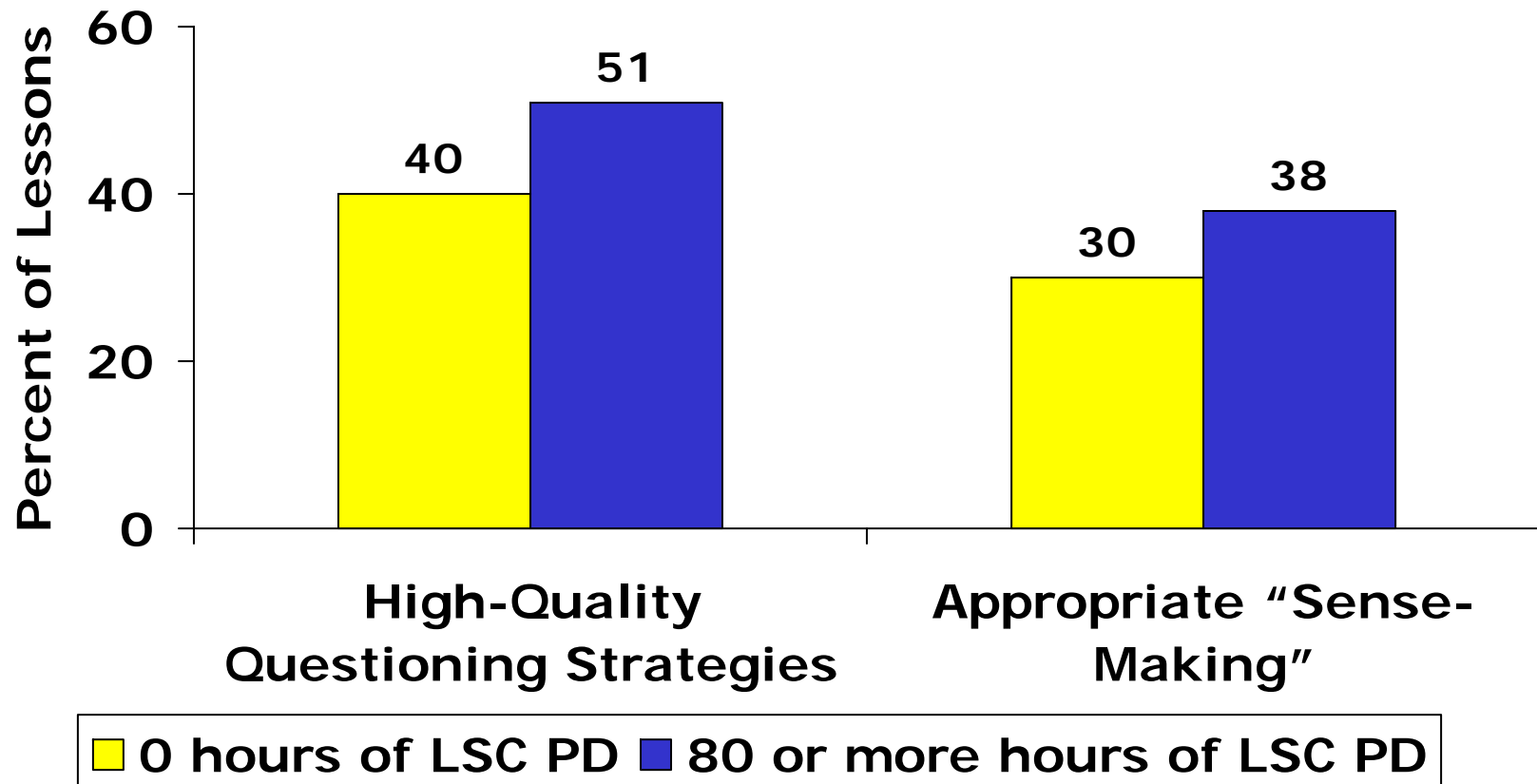
Key Messages

- Sustained, content-specific professional development in mathematics and science can be broadly implemented, reaching a critical mass of teachers.
- This kind of professional development leads to improved mathematics and science instruction.

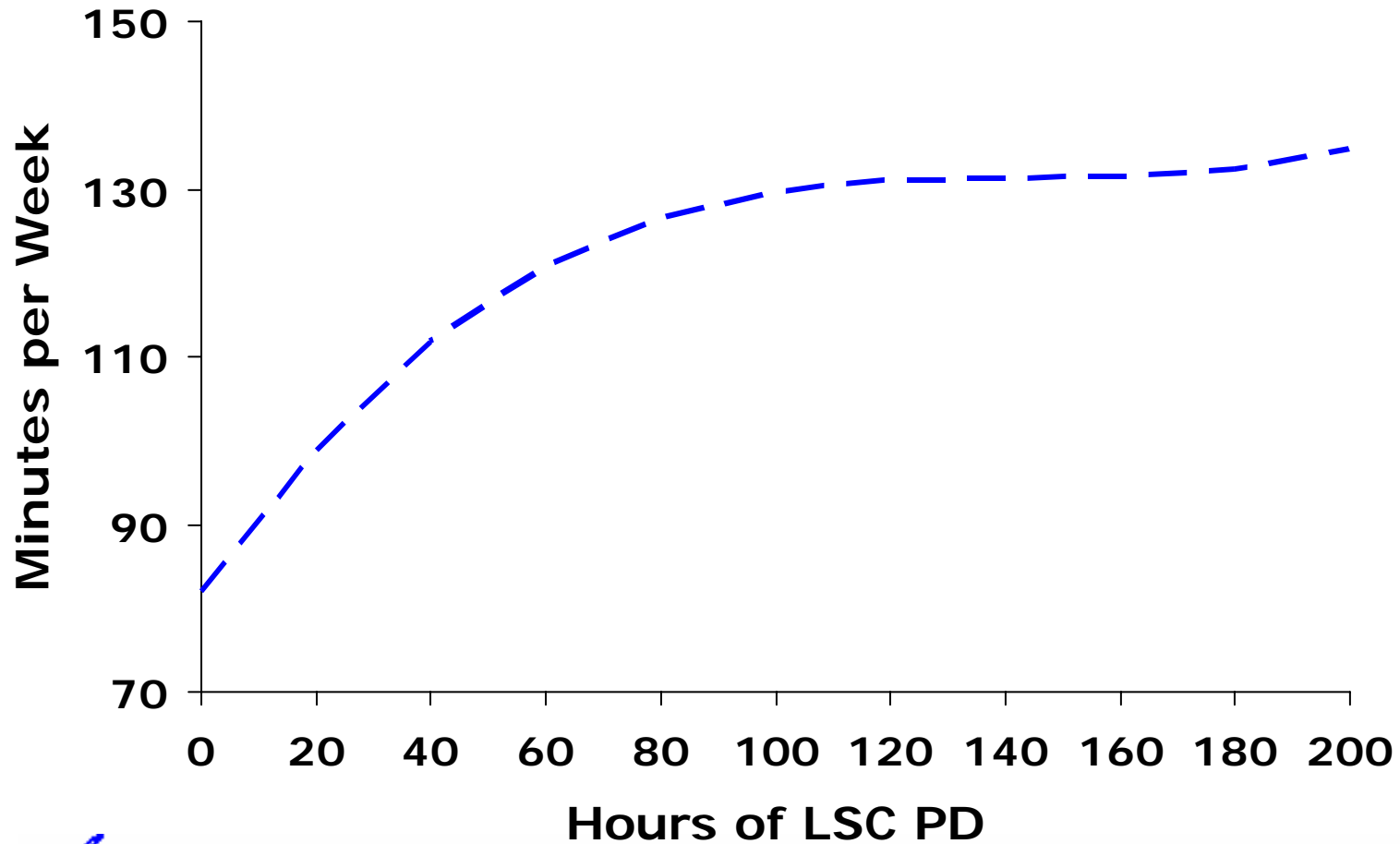
Goals of the LSC

- Deepen teachers' knowledge of mathematics/science content;
- Familiarize teachers with the district-designated instructional materials and the pedagogy needed to use them; and
- Provide on-going support for teachers in content, pedagogy, and materials over the course of implementation.

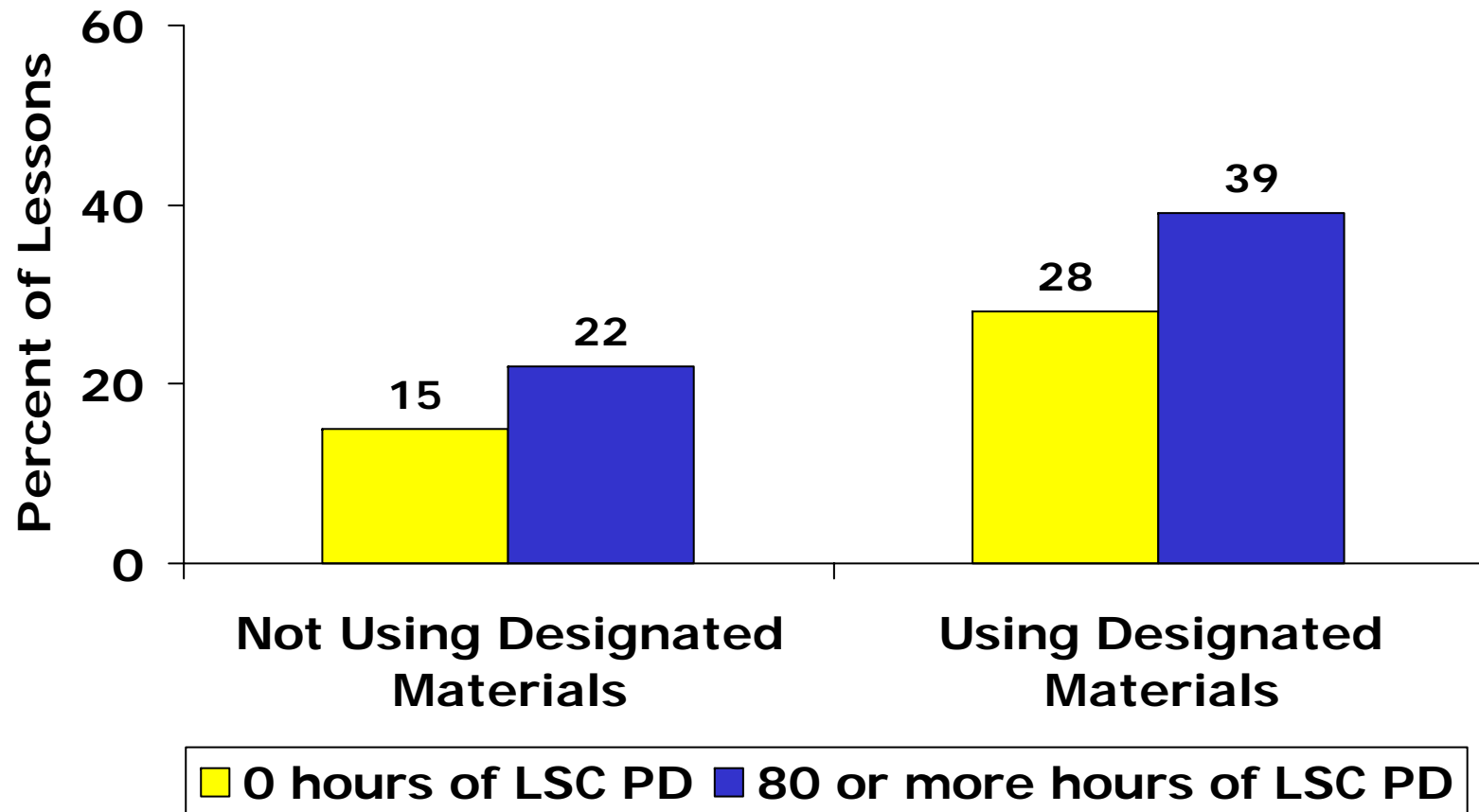
Lessons Receiving High Ratings on Selected Indicators, by Hours of LSC Professional Development



Instructional Time Devoted to Science (K-5 self-contained classes), by Extent of Participation in LSC PD



Lessons Receiving a High Rating for Overall Quality, by Hours of LSC Professional Development





Need to involve principals
"early and often"

Improving mathematics and science teaching

- A one-shot workshop is not going to be equal to the task.
- Focusing professional development on student instructional materials is a promising strategy for enabling teachers to improve their classroom practice.

Improving mathematics and science teaching

- The LSC experience shows that, with a concerted effort involving stakeholders from both within and outside the districts, large-scale professional development is both possible and effective.