

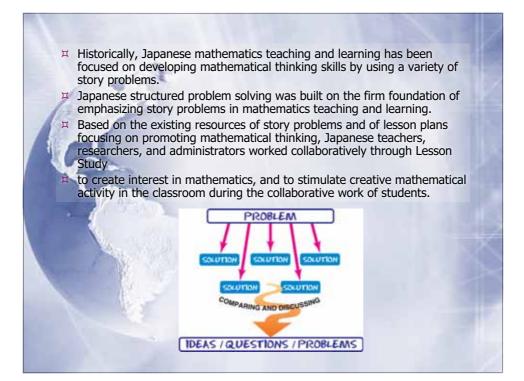
Characteristics Of Japanese Mathematics Lessons

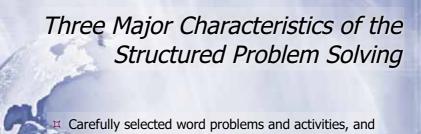
Teachers appear to take a less active role, allowing their students to invent their own procedures for solving problems. And those problems are quite demanding, both procedurally and conceptually.

Teacher, however, carefully design and orchestrate lessons so that students are likely to use procedures that have been developed recently in class. An appropriate motto for Japanese teaching would be

"structured problem solving"

(Stigler, Hiebert 1999)

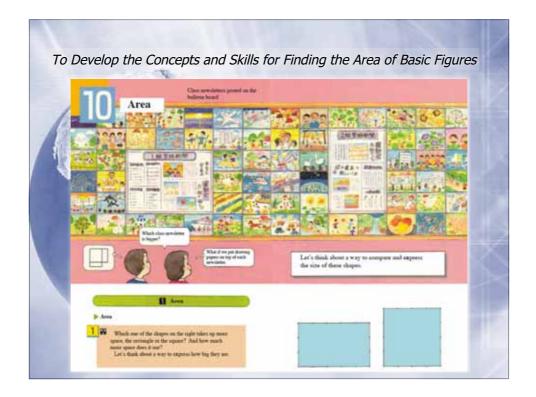


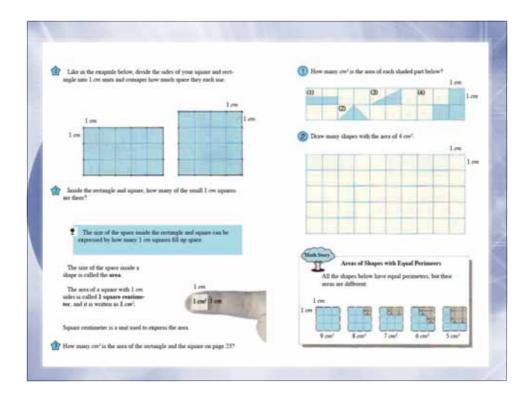


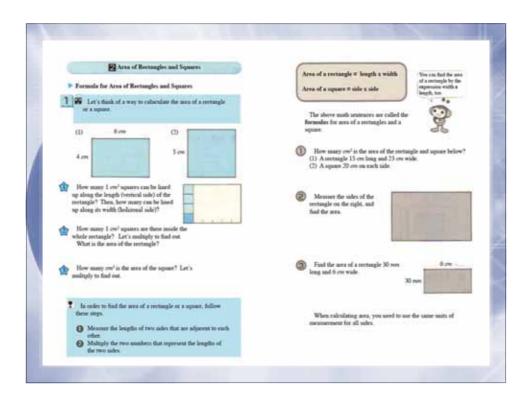
- their cohesiveness
- Extensive discussion (Neriage)
- Emphasis on blackboard practice (Bansho)

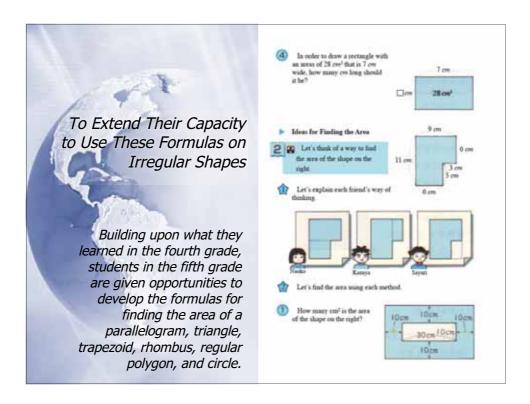
Carefully Selected Word Problems and Activities, and Their Cohesiveness

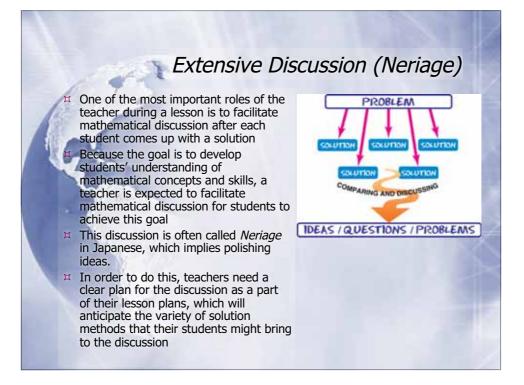
Each lesson is designed around solving a single problem to achieve a single objective in a topic
Examples from a Japanese mathematics textbook series

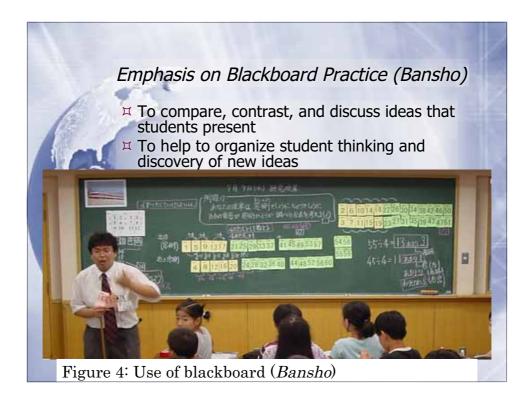












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