

**A Mathematics Lesson**  
(US Perspective – TIMSS)

- Warm up
- Homework
- Teacher-led example(s)
- Students practice one or two examples
- Class discussion of examples
- Seat work practice
- Homework

**The Lesson**  
(Japanese Perspective – TIMSS)

**Introduction: *hatsumon***  
Thought-provoking question  
Toss out a “hook”  
Refer to students’ experience

**Key question: *shu hatsuman***  
Individual or small group work  
Walking among the desks (*kikan-shido*)  
Anticipated student solutions  
Caution points  
Evaluation points

**The Lesson (continued)**  
(Japanese Perspective – TIMSS)

**Student solutions: *neriage***  
“Kneading students’ ideas up”  
Compare ideas among students  
Integrate the solutions  
Orchestrate discussion to raise the mathematics

**Summing up: *matome***  
Teacher sums up the mathematics  
Connect to the students’ “hearts”  
Should be a highlight