

# 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