Which do you do most of the time?

1

Assessment

The process of understanding student thinking.

Evaluation

The process of assigning a value metric to student work.

"The starting point is the mathematics and thinking the student brings to the lesson, not the deficit of mathematics they do not bring. A standard defines a finish line, not the path. The path begins with the

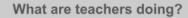
et. al., 2011



Noticing and Wondering: A powerful tool for assessment

Mark Chubb

9th May 2018



- Selecting tasks that have an intended purpose
- Anticipating what students might do
- Providing ample time for students to work independently or in pairs/groups
- Listening / observing to what students do

@MrBinfield @MarkChubb3

Asking students prompting questions

What are students doing?

- Working independently or in pairs/groups solving problems
- · Talking to others about their thinking
- Testing /manipulating ideas
- Representing their thinking



3

The questions we ask matter!

Funneling & Focusing

- Funneling: When teacher asks a series of questions that guide the students to a procedure or to a desired end.
- Focusing: A focusing-interaction patterns requires the teacher to listen to students' responses and guide them based on what the students are thinking rather than how the teacher would solve the problem.

Herbel-Eisenmann, B. A. & Breyfogle, M. L. (2005).



5 Practices for Orchestrating Productive Mathematics Discussions

- 1. Anticipating Do the problem yourself
- 2. Monitoring Listen, observe, identify key strategies
- 3. Selecting Purposefully select those that will advance mathematical ideas
- 4. Sequencing How will the learning from the first solution help us better understand the next solution?
- 5. Connecting Compare and contrast samples of students' work what are the mathematical relationships?





