# **Number Talks Basics**

## The Basic Routine:

## A whole-class 10-minute mathematics discourse routine.

## The teacher poses a problem.

## Students solve the problem *without* using a standard algorithm.

## Teacher and student negotiate meaning until the student is convinced that the teacher has understood their strategy.

## Design Principles:

## Situating authority in the student (including shared decision-making over aspects of the routine.)

## Accepting all answers without judgement

## Examining the symbolic representation before starting.

## Examining co-created artifact at the end.

## Visually representing students’ thinking.

## Ensuring that models and tools are present in core math time.

## Maintaining the regularity and structure of the routine.

## Maintaining consistent language and prompts within the routine.

## Incorporating pair-sharing

## Teacher Moves:

## Accepting all forms communication

### Encouraging gestures & heritage languages

## Revoicing (paraphrasing without adding more)

## Providing synonyms

## Being aware and intentional about registers

## Connecting students to each other as resource

## Attending to gestures as pre-verbalizations

## Purposefully selecting students’ to share (MLs first)

## Providing frequent opportunities for students to privately confer and set goals for future sharing.

## We offer professional development to advance educators’ capacity to center and elevate the voices of multilingual learners in mathematics learning communities.

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