Modes & Types of Mathematical Discourse

Modes of Mathematical Discourse

Code	Definition	Explanation
ST	Student to Teacher	Student primarily addresses the teacher, even if entire class hears
SS	Student to Student	
SG	Student to Group	
SW	Student to Whole Class	
SIR	Student's Individual Reflection	
TG	Teacher to Group	
TW	Teacher to Whole Class	
TS	Teacher to Student	
TIR	Teacher's Individual Reflection	Teacher may ponder out loud at the board
Ν	None	There is no discourse (test or quiz, for example)

Types of Mathematical Discourse

Code	Definition	Explanation
А	Answering	Answer from student or from teacher
S	Making a statement or sharing	Individual does not share how or why
Е	Explaining	A mathematical idea may be explained, but there is no justification
Q	Questioning	A student asks a question to clarify own understanding
С	Challenging	Student or Teacher makes a statement that challenges validity of an idea
R	Relating	Student indicates he/she has made a connection to prior knowledge
Р	Predicting or Conjecturing	Based on student's own understanding
J	Justifying	Student provides justification for the validity of an idea
G	Generalizing	Shifts from specific case to general understanding