



Taking Action: Implementing Effective Teaching Practices in Grades K-5



Chapter		Analyzing Teaching and Learning Activities (ATL)	Artifacts	Task	Grade
1		ATL 1.1. Investigating Teaching and Learning in a Grade 3 Classroom	Narrative case	Band Concert Task	3
2	Goals	ATL 2.1. Three Potential Goal Statements for a Multiplication Lesson	Goal statements	Band Concert Task	3
		ATL 2.2: Observing How Goals Guide Teacher-Student Interactions	Video & transcript	Donuts Task	K
		ATL 2.3: Examining How Goals Inform Instructional Decisions	Video & transcript	Polygon Task	5
		ATL 2.4: Relating Goals to the Other Teaching Practices	Video & transcript	Donuts Task	K
3	Tasks	ATL 3.1. Comparison of Two Multiplication Tasks	Tasks	Band Concert Task Multiples of Ten Task	3
		ATL 3.2. Sorting Tasks by Cognitive Demand	Set of tasks	Varied	K–5
		ATL 3.3. Comparing Instruction in Two Classrooms	Narrative cases	Band Concert Task	3
		ATL 3.4. Exploring a Sequence of Tasks	Set of tasks	Varied (addition and subtraction)	1
4	Fluency	ATL 4.1: Mathematical Affordances of a Task	Student work	Band Concert Task	3
		ATL 4.2: Using an Equation Sequence to Build toward Fluency	Video & transcript	Addition Strings Task	1
		ATL 4.3: Considering Sequences of Tasks	Sequence of tasks	Varied (multi-digit multiplication)	4
		ATL 4.4: Student Learning Related to the Task Sequence	Student work	Varied (multi-digit multiplication)	4
5	Questions	ATL 5.1: Noticing the Effect of Teacher Questions	Class discussion	Caterpillar Task	1
		ATL 5.2: Noticing How Teachers Respond to Students	Class discussion	Caterpillar Task	1
		ATL 5.3: Posing Assessing and Advancing Questions	Student work	Brownie Task	3

6	Representations	ATL 6.1: Assessing Knowledge of Representations	Student work	Multiplication Check-In Assessment (4 x 7)	3
		ATL 6.2: Flexibility in Using Representations	Student work	Swings Task	2
		ATL 6.3: Shifting Instruction to a Focus on Representations	Vignettes	Clare's Bears Task Tell a Story Task	1 4
7	Discourse	ATL 7.1: Discourse in the Case of Robert Harris	Narrative cases	Band Concert Task	3
		ATL 7.2: What is the Teacher Doing? What are Students Doing?	Lesson transcript	Class Attendance Task	1
		ATL 7.3: Anticipate Student Approaches	Task	Walking from School Task	4
		ATL 7.4: Select, Sequence, and Connect	Student work	Walking from School Task	4
8	Evidence	ATL 8.1: Examining the Potential of a Task	Task	Make a Ten Task	1
		ATL 8.2: Examining the Details in Student Work	Student work	Make a Ten Task	1
		ATL 8.3: Building on Students' Mathematical Ideas	Video & transcript	Odd and Even Task	3
		ATL 8.4: Writing as a Window into Students' Thinking	Student work	Odd and Even Task	3
		ATL 8.5: Structuring the Class Discussion	Narrative case	Pencil Task	5
9	Struggle	ATL 9.1: Student Struggles and Teacher Supports	Video & transcript	Half-of-a-Whole Task	3
		ATL 9.2: Student Impasse Scenarios	Scenarios	Seth's Birthday Cake Task	5
		ATL 9.3: Intentional Teacher Actions	Class discussion	The Beads Task	1
10		ATL 10.1. Reflecting On and Improving Teaching	Narrative case	Brownie Task	4

Huinker, DeAnn, and Victoria Bill. 2017. *Taking Action: Implementing Effective Mathematics Teaching Practices in Grades K-5*. Reston, VA: National Council of Teachers of Mathematics,.