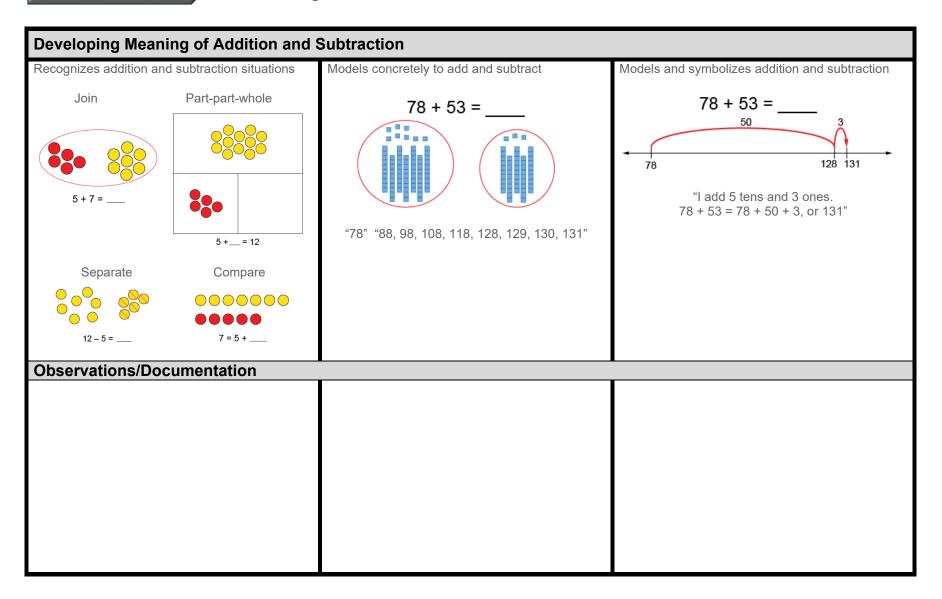
Developing Fluency for Addition and Subtraction		
Fluently adds and subtracts within 5	Fluently adds and subtracts to 10	Fluently adds and subtracts to 20
"I know 4 + 1 = 5 and 5 − 1 = 4."	"I know 8 + 2 = 10 and 10 − 2 = 8." (complements to 10)	"I can use doubles. I know 9 + 9 = 18 and 18 – 9 = 9."
Observations/Documentation		
Uses known sums and differences to solve addition and subtraction equations	Develops mental strategies and algorithms	Estimates sums and differences
"25 + 37 = □	$129 + 232 = \Box$ I take 1 from 32 and give it to 129	149 + 138 = □ "149 is close to 150.
l know 25 + 30 = 55, and 55 plus 5 is 60, and 2 more makes 62."	to get 130 + 231. 130 + 230 = 360, and 1 more is 361."	138 is close to 140. 150 + 140 = 290"
(decomposing, known facts)	(compensation)	(using benchmarks)
Observations/Documentation		

Number

Activity 22 Assessment Using Mental Math to Add and Subtract



Activity 22 Assessment Using Mental Math to Add and Subtract

Developing Meaning of Addition an Estimates sums and differences to check	Creates and solves problems	Uses properties and inverse operations of addition
reasonableness 231 - 142 = 89 "230 - 140 = 90, which is close to 89 so my answer is reasonable."	"There are 231 birds in the tree. Some birds flew away. Now there are 142 birds in the tree. How many birds flew away?" 231 - □ = 142 89 birds flew away.	and subtraction to solve problems $231 - \Box = 142$ "I can think addition to help me solve the problem: $142 + \Box = 231$ "
Observations/Documentation		