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Accelerating Campus Excellence

Input & Output Tables

Input & Output Tables directly supports student expectation:

> **4.5B** The student is expected to represent problems using an input - output table and numerical expressions to generate a number pattern that follows a given rule representing the relationship of the values in the resulting sequence and their position within the sequence. ***Readiness Standard***

The intent of the routine is to familiarize students with the vocabulary that is associated with input & output tables as well as the possible formats of the table. Refer to the samples on the next page to view possible table formats.

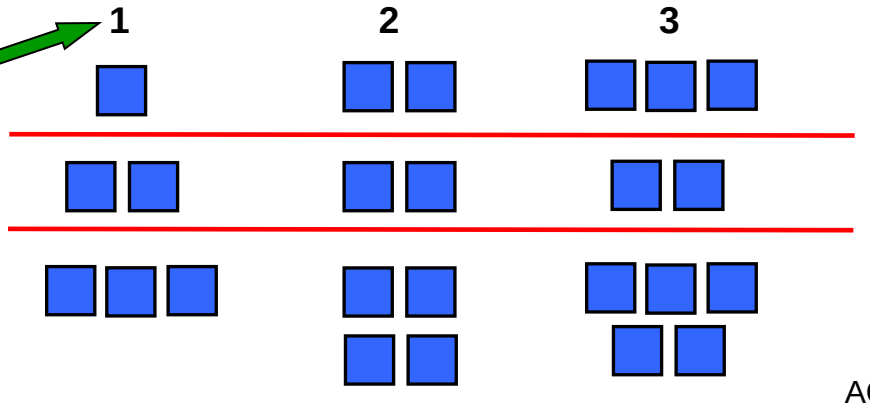
The routine is initially teacher-led. Students begin to lead the process of filling in the table using a gradual release model. The teacher eventually facilitates the completion of the table using only questioning.

DIRECTIONS

1. Provide input values and the rule. *To align with the student expectation, the rule is provided.*
2. Ask students to perform the operation indicated by the rule and provide the output.

Explain the input and position are synonymous. The meaning of both can be illustrated using tiles:

Input	Position in the pattern
Rule	Rule +2
Output	Value



Input & Output Tables

Input	Rule	Output
Position	Rule	Value
1	+5	6
2	+5	7
3	+5	8
7	+5	12
10	+5	15
n	+5	n + 5

Rule: Input + 10	
Input	Output
Position	Value
2	12
3	13
4	14
15	25

Input & Output Tables

Input Position	Rule Rule	Output Value

Rule:

Input Position	Output Value