## APPENDIX D

## Classroom Observation Protocol (General)



## Evaluation of Mathematics Curricula

## OBSERVATION OF MATH INSTRUCTION <br> Lesson Form

## IMPORTANT NOTE

Please use a BLACK pen. Blue or red pens and pencil cannot be read by our scanners. When asked to mark boxes, make an "X" through the box.

Sample: $\boxtimes$ Right $\square$ Wrong
If you wish to change a response, please mark the correct response and CIRCLE it.
Use block printing as shown below when you complete any numeric or text responses.



School Name
$\square$
District Name


Date of Observation

$\square$ [1] $\square$ AM $\square \mathrm{PM}$
A. Teacher Initiated Instructional Behaviors

Frequency of Instructional Behaviors (tally frequency for instructional behaviors, not directions or class management) (enter total of "21" for 21 or more tallies)
Total
1


Asks close-ended questions (teacher accepts only one answer)
2 $\square$ Poses open-ended questions (tally number of different responses) Tells information, models procedures, or shows students how to represent concepts
$3 \square$
4 $\square$ Guides practice on problems (tally number of problems)


Elicits multiple strategies/solutions (tally number of problems)
6 $\square$ Uses representations (tally number of types of representations)
$\square$
Tally

$\square$


## B. Teacher Feedback

How did the teacher provide feedback to students?
Teacher Response to student answers:
1


States if correct or not without elaborating or repeats what child said with indication of right or wrong


2


Calls on other students until the "correct" answer is given


Provides correct answer right away (no probing for thinking or hinting)


4 $\square$ Asks class if they agree or disagree with student's response


5


Takes student through step-by-step procedure


6


Tells student strategy to use
7


Elicits other students' questions about the student's response


9 $\square$
Labels math strategy, problem, or concept
Repeats student answer in a neutral way (no indication of right or wrong)
Teacher Guidance and follow up questions:
10 $\square$ Probes for reasoning or justification of solution


11 $\square$ Provides hint to students


12 $\square$ Clarifies what student says or does


Extends what student says or does


Teacher Praise:

14 $\square$ Uses praise or makes positive comments focused on content

C. Student Work
Total
1
 Demonstrated work to peers (tally number of students)


## D. Evidence of Instructional Behaviors

| $1 \square$ Yes $\square$ No | States lesson objective at the beginning of class |
| :---: | :---: |
| $2 \square$ Yes $\square$ No | Connects lesson to prior knowledge/instruction |
| $3 \square$ Yes $\square$ No | Demonstrates how to play game |
| $4 \square$ Yes $\square$ No | Guides children in acting out a problem |
| $5 \square$ Yes $\square$ No | Leads children in a rap, song, or fingerplay to illustrate math concept or practice |
| $6 \square$ Yes $\square$ No | Uses children's book to make connections to math concept |
| $7 \square$ Yes $\square$ No | Connects math to real life problems or situations |
| $8 \square$ Yes $\square$ No | Directs or encourages students to help one another with math |
| $9 \square$ Yes $\square$ No | Prompts child to guide practice or lead class in a routine |
| $10 \square$ Yes $\square$ No | Leads summary of what was learned or asks students to lead/share summary |
| $11 \square$ Yes $\square$ No | Administered a written assessment |

## NOTES

## E. Student Actions in Routine(s) and Lesson

Teacher provided students with the following opportunities to learn:
(note the fractional of class involved in these activities)

F. Math Practice (Routine and Lesson)
$1 \square$
Number of practice problems focused on today's objective
Tally
$2 \square$ Number of problems focused on review of previously learned material $\square$
$3 \square$ Yes $\square$ No Review of homework (together in class or marked answers only)
G. Materials used by children: (check all that apply in routine(s) and lesson)

| $\square$ Pattern blocks | $\square$ Base ten blocks/bean sticks | $\square$ Ten frames |
| :--- | :--- | :--- |
| $\square$ Linking cubes | $\square$ Fingers | $\square$ Stairsteps |
| $\square$ Geoboards | $\square$ Calculators | $\square$ Fact cards/sheets |
| $\square$ Blank cubes | $\square$ Dot cubes | $\square$ Math boards |
| $\square$ Coins | $\square$ Counters | $\square$ Wrap ups |
| $\square$ Number lines | $\square$ Other, specify: | $\square$ Part part board |
| $\square$ Hundreds (120) charts | $\square$ | $\square$ Standard measuring tools |

H. Types of Representations (check all those used in routine(s) and lesson)

| $\square$ Drawing pictures/dots | $\square$ Tables |
| :--- | :--- |
| $\square$ Diagrams | $\square$ Break-aparts |
| $\square$ Graphs | $\square$ Labels |
| $\square$ Vertical equation/number sentence | $\square$ Number line |
| $\square$ Horizontal equation/number sentence | $\square$ Sticks/circles |
| $\square$ Make 3D model | $\square$ Tallies |
| $\square$ Look for pattern | $\square$ Other: $\square$ |

I. Percent of time in each group size (in Routine plus Lesson):

| 1 | $\square$ Not at all | $\square 5-25 \%$ | $\square$ 26-49\% | $\square 50-74 \%$ | $\square 75-100 \%$ | Large group |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | $\square$ Not at all | $\square 5-25 \%$ | $\square$ 26-49\% | $\square 50-74 \%$ | $\square 75-100 \%$ | Small group |
| 3 | $\square$ Not at all | $\square 5-25 \%$ | $\square 26-49 \%$ | $\square 50-74 \%$ | $\square 75-100 \%$ | Pairs |
| 4 | $\square$ Not at all | $\square 5-25 \%$ | $\square 26-49 \%$ | $\square 50-74 \%$ | $\square 75-100 \%$ | Individual |

NOTES

## J. Classroom Characteristics

Rate how characteristic the statement is of the class that you observed (check one box for each statement)
$1=$ Not at All (almost never)
2 = Minimally Characteristic (sometimes evident)
3 = Strongly Characteristic (frequently evident)
4 = Extremely Characteristic (almost always evident)

1 Students are cooperative and attentive to the lesson.


10 Sudents attended to the lesson in a passive way (looking at the speaker, sitting up, but with limited opportunity to talk or write or manipulate materials).

11 Students are off-task.

12 Teacher and students have a warm, positive relationship.

13 Teacher encourages students to help one another understand the math.


14 Students help one another to understand math concepts or procedures.

15 Peer to peer interaction about math occurs.


17 Students spend little time waiting or transitioning between topics.

18 Transitions are smooth and students get to work quickly.
19 Students need to wait for the teacher to begin or for other students to finish working before they work on next problem or activity.



16 Teacher has techniques for gaining class attention in less than 10 seconds.

20 Teacher spends a lot of time giving directions.

| $\square 1$ | $\square 2$ | $\square 3$ | $\square 4$ |
| :--- | :--- | :--- | :--- |

## J. Classroom Characteristics (continued)

Rate how characteristic the statement is of the class that you observed (check one box for each statement)
$1=$ Not at All (almost never)
2 = Minimally Characteristic (sometimes evident)
3 = Strongly Characteristic (frequently evident)
4 = Extremely Characteristic (almost always evident)

21 Teacher has materials prepared and ready for students.


23
Students had easy access and permission to use manipulatives when working.


24 The teacher is fluid in her presentation of the lesson.


25 Students appear familiar with the materials and procedures used.


26 Students are given the opportunity to think and respond (i.e., adequate wait time is given).


27 During independent work time the teacher monitored student work.
$\square$ N/A


28 In monitoring student work, teacher followed through to ensure understanding.


31 Teacher differentiated curriculum for children who were English language learners.

| $\square 1$ | $\square 2$ | $\square 3$ | $\square 4$ |
| :--- | :--- | :--- | :--- |

K. Please describe any supplementary materials or activities that you observed being used (if possible attach copies. Be sure to note the objective for the materials (reteaching concepts, extra focused practice, mixed practice or fluency on facts or procedures):
$\square$
L. Additional comments (unexpected observations):
$\square$

