

### **Classroom Observation-2019**

An unannounced classroom observation was conducted in 114 schools, all of which participated in the student interviews. Three waves of classroom observation (12 observations in each wave in each school) were completed in Grades 6, 7 and 8 of each school; the same protocols were followed for each wave. The classroom observation yielded data on classroom environments, recording teaching-learning methodology, instructional practice of teachers, students' attitude towards learning, teacher-student interactions, management of physical objects, etc.

Informed consent was obtained from the principal or vice principal at every participating school, and the purpose of the classroom observation, procedure, objectives, and schedule were explained. The average time taken to complete each observation was 10 minutes. If classes had two or more sections, then the frequency of observation was divided as per the section to make four observations per class. The observations were recorded using Windows tablets.

Twelve observations were completed per school, per wave, resulting in a total of 4,085 classroom observations. Out of 4,104 total expected observations, 4,085 observations were completed, resulting in a 99.5% completion rate. 12 observations were refusals, and a remaining 7 observations were unable to be completed due to scheduling conflict.

Principal investigator Prof. Dr. Dirgha Jibi Ghimire, Population Studies Center, University of Michigan, Executive Director, ISER-N; Co-investigator Prof. Dr. William G. Axinn, Population Studies Center, Survey Research Center, University of Michigan; and Co-investigator Prof. Dr. Brian Rowan, Institute for social research, Stanford University led the project.

**Classroom Observation - 2019**

**Data Description**

**Data Set Name: Final\_Classobservation\_Data**

**Number of observations: 4104**

**Number of variables: 91**

**Unique identifier: School\_ID**

**Response rate: 99.53**

**Data Format: SPSS**

**Data collection: 1/21/2019- 3/22/2019**

		<b>Number</b>	<b>Percent</b>
SchID	School ID		
	001-236 School ID	4104	100.00%
		<b>Total</b>	<b>4104</b>
		<b>4104</b>	<b>100.00%</b>
SchlType	School Type		
	1 Community school	2052	50.00%
	2 Institutional school	2052	50.00%
		<b>Total</b>	<b>4104</b>
		<b>4104</b>	<b>100.00%</b>
Class	Grade of School		
	6 Grade 6	1368	33.33%
	7 Grade 7	1370	33.38%
	8 Grade 8	1366	33.28%
		<b>Total</b>	<b>4104</b>
		<b>4104</b>	<b>100.00%</b>
Section	Section of Class		
	1 Section 1	3527	85.94%
	2 Section 2	507	12.35%
	3 Section 3	49	1.19%
	4 Section 4	15	0.37%
	5 Section 5	6	0.15%
		<b>Total</b>	<b>4104</b>
		<b>4104</b>	<b>100.00%</b>
Wave	Wave		
	1 Wave 1	1368	33.33%
	2 Wave 2	1368	33.33%
	3 Wave 3	1368	33.33%
	<b>Total</b>	<b>4104</b>	
		<b>4104</b>	<b>100.00%</b>
OBSNO	Total Observations		
	1-36 Observation Number	4104	100.00%
		<b>Total</b>	<b>4104</b>
		<b>4104</b>	<b>100.00%</b>
CaseID	Combination of School ID, Class, Section, Wave and Observation number		
	00161102-23681334 Case ID	4104	100.00%
		<b>Total</b>	<b>4104</b>
		<b>4104</b>	<b>100.00%</b>
IWER_ID	Interviewer ID		

	221 IWERID	402	9.80%
	273 IWERID	402	9.80%
	274 IWERID	360	8.77%
	275 IWERID	353	8.60%
	276 IWERID	349	8.50%
	277 IWERID	348	8.48%
	301 IWERID	360	8.77%
	302 IWERID	108	2.63%
	303 IWERID	402	9.80%
	305 IWERID	396	9.65%
	306 IWERID	371	9.04%
	307 IWERID	253	6.16%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
Schl_ward	School Ward Number (Bharatpur Municipality)		
	03-28 Ward number	4104	100.00%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
Total_Time	Observation Time (MM.SS)		
	0 No more (MM.SS) (Refuse)	19	0.46%
	9.00-10.9 MM.SSS	4085	99.54%
	<b>Total</b>	<b>4104</b>	<b>0.00%</b>
Date	Observation Date		
	1/21/2019- 3/22/2019	4104	100.00%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_1	Grade		
	6 Grade 6	1368	33.33%
	7 Grade 7	1370	33.38%
	8 Grade 8	1366	33.28%
	99 Unobserved	0	0.00%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_2	Class Section		
	1 Section 1	3527	85.94%
	2 Section 2	507	12.35%
	3 Section 3	49	1.19%
	4 Section 4	15	0.37%
	5 Section 5	6	0.15%
	99 Unobserved	0	0.00%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_3	Number of students present		
	99 Unobserved	4104	100.00%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_3_0	Number of Boys in Class		
	99 Unobserved	4104	100.00%

		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_3_1	Number of Girls in Class			
	99 Unobserved		4104	100.00%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_4	Seating arrangement			
	1 Fixed desks in rows		21	0.51%
	2 Moveable desks in rows		3620	88.21%
	3 Moveable desks in pods		98	2.39%
	99 Unobserved		365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_5	Teacher present			
	10 Regular Male teacher		1958	47.71%
	11 Regular Female teacher		1019	24.83%
	20 Substitute Male teacher		31	0.76%
	21 Substitute Female teacher		33	0.80%
	30 Can't differentiate Male teacher		242	5.90%
	31 Can't differentiate Female teacher		147	3.58%
	97 Teacher absent		309	7.53%
	99 Unobserved		365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_6	Other adults present			
	5 No one		3670	89.42%
	10 Principal (Male)		8	0.19%
	20 Other administrator/Helper (Male)		2	0.05%
	21 Other administrator/Helper (Female)		1	0.02%
	30 Other teacher (Male)		28	0.68%
	31 Other teacher (Female)		20	0.49%
	40 Parent or other adult (Male)		6	0.15%
	41 Parent or other adult (Female)		4	0.10%
	99 Unobserved		365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_7	Subject being taught			
	1 Nepali		479	11.67%
	2 English		456	11.11%
	3 Math		584	14.23%
	4 Science		468	11.40%
	5 Social & Population Edu.		468	11.40%
	6 Health & Physical Education		234	5.70%
	7 Moral		112	2.73%
	8 Computer		276	6.73%
	9 Occupation Business & Technology		326	7.94%
	91 Due to exam/test, subject was not assigned		24	0.58%
	92 Due to training/meeting, subject was not assigned		3	0.07%
	93 Due to teacher absence, subject was not assigned		309	7.53%

	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_8	Instructional format (This set of codes describes how the teacher and students are working. It does not describe seating arrangements.)		
	1 Students working with Whole Class	3125	76.15%
	2 Students working in Small Groups	21	0.51%
	3 Students working as Individuals	319	7.77%
	4 None	274	6.68%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_9	Class was scheduled but not held		
	0 None	3430	83.58%
	1 Yes	309	7.53%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_10	Teacher was out of room when students were present (Code this any time the teacher is not in the room when students are present)		
	0 None	3430	83.58%
	1 Yes	309	7.53%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_11	Teacher worked alone without student contact (Code this any time the teacher is working alone and not with students. Students will be present, but the teacher will not be circulating to supervise their work or working directly with students.)		
	0 None	3728	90.84%
	1 Yes	11	0.27%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_12	Teacher worked with another adult in the room during class time (Code this anytime an adult other than the teacher is present and either leading an instructional activity or working on instructional activities with students. This code does not include the case where another adult is present but simply observing the class or interrupting the class for a management task.)		
	0 None	3712	90.45%
	1 Yes	27	0.66%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_13	Teacher gave a test (Code this if the activity is intended as a summative assessment of what students know, if the activity will be graded, and if the grade on the activity will count toward students course grade)		
	0 None	3661	89.21%
	1 Yes	78	1.90%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>

A_14	<p>Teacher reviewed homework assignments/test results with students (Code this anytime a teacher is working with students to discuss completed homework or test results. Do not code if teacher is reviewing seatwork from the current day.)</p> <table> <tbody> <tr> <td>0</td> <td>None</td> <td>3445</td> <td>83.94%</td> </tr> <tr> <td>1</td> <td>Yes</td> <td>294</td> <td>7.16%</td> </tr> <tr> <td>99</td> <td>Unobserved</td> <td>365</td> <td>8.89%</td> </tr> <tr> <td colspan="2"><b>Total</b></td> <td><b>4104</b></td> <td><b>100.00%</b></td> </tr> </tbody> </table>	0	None	3445	83.94%	1	Yes	294	7.16%	99	Unobserved	365	8.89%	<b>Total</b>		<b>4104</b>	<b>100.00%</b>
0	None	3445	83.94%														
1	Yes	294	7.16%														
99	Unobserved	365	8.89%														
<b>Total</b>		<b>4104</b>	<b>100.00%</b>														
A_15	<p>Teacher assigned seatwork to students (Code this if the teacher assigned a task for students to complete while students worked in their seats during class time. Do not code seatwork if the assignment was a test.)</p> <table> <tbody> <tr> <td>0</td> <td>None</td> <td>2291</td> <td>55.82%</td> </tr> <tr> <td>1</td> <td>Yes</td> <td>1448</td> <td>35.28%</td> </tr> <tr> <td>99</td> <td>Unobserved</td> <td>365</td> <td>8.89%</td> </tr> <tr> <td colspan="2"><b>Total</b></td> <td><b>4104</b></td> <td><b>100.00%</b></td> </tr> </tbody> </table>	0	None	2291	55.82%	1	Yes	1448	35.28%	99	Unobserved	365	8.89%	<b>Total</b>		<b>4104</b>	<b>100.00%</b>
0	None	2291	55.82%														
1	Yes	1448	35.28%														
99	Unobserved	365	8.89%														
<b>Total</b>		<b>4104</b>	<b>100.00%</b>														
A_16	<p>Teacher gave lecture/presentation (Code this if a teacher is making a sustained presentation on a topic to students. Students might or might not interrupt the teacher's discourse with questions, but the teacher will not be asking students questions during the lecture or encouraging student discussion.)</p> <table> <tbody> <tr> <td>0</td> <td>None</td> <td>3666</td> <td>89.33%</td> </tr> <tr> <td>1</td> <td>Yes</td> <td>73</td> <td>1.78%</td> </tr> <tr> <td>99</td> <td>Unobserved</td> <td>365</td> <td>8.89%</td> </tr> <tr> <td colspan="2"><b>Total</b></td> <td><b>4104</b></td> <td><b>100.00%</b></td> </tr> </tbody> </table>	0	None	3666	89.33%	1	Yes	73	1.78%	99	Unobserved	365	8.89%	<b>Total</b>		<b>4104</b>	<b>100.00%</b>
0	None	3666	89.33%														
1	Yes	73	1.78%														
99	Unobserved	365	8.89%														
<b>Total</b>		<b>4104</b>	<b>100.00%</b>														
A_17	<p>Teacher conducted a recitation (QRE-QRE) (Code this if the teacher is engaging in a pattern of discourse that involves a particular pattern of turn taking in which the teacher asks a question and gets a student response, and then asks another question and gets a student response, such that the turn taking proceeds through a number of cycles.)</p> <table> <tbody> <tr> <td>0</td> <td>None</td> <td>3263</td> <td>79.51%</td> </tr> <tr> <td>1</td> <td>Yes</td> <td>476</td> <td>11.60%</td> </tr> <tr> <td>99</td> <td>Unobserved</td> <td>365</td> <td>8.89%</td> </tr> <tr> <td colspan="2"><b>Total</b></td> <td><b>4104</b></td> <td><b>100.00%</b></td> </tr> </tbody> </table>	0	None	3263	79.51%	1	Yes	476	11.60%	99	Unobserved	365	8.89%	<b>Total</b>		<b>4104</b>	<b>100.00%</b>
0	None	3263	79.51%														
1	Yes	476	11.60%														
99	Unobserved	365	8.89%														
<b>Total</b>		<b>4104</b>	<b>100.00%</b>														
A_18	<p>Teacher led a group discussion (student to student exchanges occurred) (Code this if the teacher is asking students to elaborate on answers previously given to teacher questions, if students evaluate or revise other students' answers, or if students ask each other questions. The key difference between discussion and recitation is in the pattern of turn taking. It will include more than cycles of teacher-student-teacher-student turn taking and include both teacher-student and student-student turn taking.)</p> <table> <tbody> <tr> <td>0</td> <td>None</td> <td>3541</td> <td>86.28%</td> </tr> <tr> <td>1</td> <td>Yes</td> <td>198</td> <td>4.82%</td> </tr> <tr> <td>99</td> <td>Unobserved</td> <td>365</td> <td>8.89%</td> </tr> <tr> <td colspan="2"><b>Total</b></td> <td><b>4104</b></td> <td><b>100.00%</b></td> </tr> </tbody> </table>	0	None	3541	86.28%	1	Yes	198	4.82%	99	Unobserved	365	8.89%	<b>Total</b>		<b>4104</b>	<b>100.00%</b>
0	None	3541	86.28%														
1	Yes	198	4.82%														
99	Unobserved	365	8.89%														
<b>Total</b>		<b>4104</b>	<b>100.00%</b>														
A_19	<p>Teacher had students publicly show work at blackboard/whiteboard (Code this if students are showing their work to both the teacher and other students.)</p> <table> <tbody> <tr> <td>0</td> <td>None</td> <td>3518</td> <td>85.72%</td> </tr> </tbody> </table>	0	None	3518	85.72%												
0	None	3518	85.72%														

		1 Yes	221	5.38%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_20	Teacher had students read aloud publicly (Code this whenever a teacher has one or more students read aloud with other students listening.)			
		0 None	3130	76.27%
		1 Yes	609	14.84%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_21	Teacher had students read silently (Code this when students have been asked to read silently.)			
		0 None	3606	87.87%
		1 Yes	133	3.24%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_22	Teacher worked with students to read and discuss short passages (Code this if the teacher and students are looking at an discussing written passages in a text)			
		0 None	2772	67.54%
		1 Yes	967	23.56%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_23	Teacher had students make prepared presentations (Code this if students are making prepared presentations to other students. Do not code this if students are simply presenting answers to recently completed seatwork)			
		0 None	3719	90.62%
		1 Yes	20	0.49%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_24	Teacher circulated as students worked on a task assignment (Code this if the teacher is walking around the room to monitor student seatwork or is working directly with students as they do their seatwork)			
		0 None	3708	90.35%
		1 Yes	31	0.76%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_25	Teacher managed physical space/objects (Code this if the teacher spends time arranging or distributing material objects like papers, pencils, tools and equipment, desks, and so on)			
		0 None	3706	90.30%
		1 Yes	33	0.80%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_26	Teacher managed student movement			

	(Code this if the teacher has directed one or more students to move physical locations. They could be asked to line up, move places, or engage in physical movements other than raising their hands or otherwise signaling to be recognize)			
	0 None	3676	89.57%	
	1 Yes	63	1.54%	
	99 Unobserved	365	8.89%	
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>	
A_27	Teacher managed school routine Code this if the teacher attends to a management issue related to school business (taking attendance, making or listening to an announcement, collecting money, etc.)			
	0 None	3665	89.30%	
	1 Yes	74	1.80%	
	99 Unobserved	365	8.89%	
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>	

Confer

A_28	Teacher relates content to personal lives of student(s) (Code this if the teacher is trying to show how the focal topic relates to students' personal experience or life situation. Focus must be on students personally. Do not code if teacher is asking about people in general or people other than the students)			
	0 None	3577	87.16%	
	1 Yes	162	3.95%	
	99 Unobserved	365	8.89%	
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>	
A_29	Teacher asks about student interest in content (Code this when teacher actively inquires about students' interest in the content)			
	0 None	3735	91.01%	
	1 Yes	4	0.10%	
	99 Unobserved	365	8.89%	
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>	
A_30	Teacher allows students to choose among alternative task assignments or tailor a fixed assignment to their interests  (Code this if students have a choice about how to complete an assignment. Students might be given a choice of different tasks to complete, or be given choice in the content of their responses to the same task)			
	0 None	3737	91.06%	
	1 Yes	2	0.05%	
	99 Unobserved	365	8.89%	
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>	
A_31	Teacher encourages students to respond to one another when working in class (This code can occur in discussion or small group format, but in these formats, code this only if the teacher actively prompts one or more students to respond to (an)other student comment. Do not code if you simply observe students responding to each other without prompting.)			



		0 None	3686	89.81%
		1 Yes	53	1.29%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_32	Teacher probes student opinions about content (e.g., how much students like, value, agree/disagree with a focal idea) (Code this if a teacher is asking about one or more students views or judgments about something, where these are not necessarily based on fact or knowledge.)			
		0 None	3621	88.23%
		1 Yes	118	2.88%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>

Care

A_33	Teacher asks about or attends to student(s) emotional/physical states (Code if teacher shows concern about one or more students' emotional/physical state)			
		0 None	3652	88.99%
		1 Yes	87	2.12%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_34	Teacher asks about event(s) in student(s) personal life (Code this if the event is a personal event, not something experienced by people in general.)			
		0 None	3730	90.89%
		1 Yes	9	0.22%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_35	Teacher offers to help student(s) with personal/family problems (Code this if teacher offers to help particular students, not people in general.)			
		0 None	3738	91.08%
		1 Yes	1	0.02%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_36	Teacher praises student(s) effort/work in class (Code praise any time it happens and concerns student work in class or school. Can be praise for good work, good effort, or good behavior)			
		0 None	3089	75.27%
		1 Yes	650	15.84%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_37	Teacher offers to help student resolve academic learning problems (Code any time teacher indicates he/she is available to help students in their class or school work.)			

		0 None	3692	89.96%
		1 Yes	47	1.15%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_38	Teacher describes specific steps students can take to improve class work (Code this if teacher is offering feedback about what students can do to improve their work in general or on a specific class activity. Code only if feedback is specific.)			
		0 None	3541	86.28%
		1 Yes	198	4.82%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>

### Captive

A_39	Teacher uses vocal inflections, gestures, movement to communicate enthusiasm (Code any time teacher shows more than his/her usual affect)			
		0 None	2943	71.71%
		1 Yes	796	19.40%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_40	Students show enthusiasm through vocal inflections, gestures, movement (Code this any time students show more than usual affect. Students working diligently or participating normally in class are not necessarily showing enthusiasm)			
		0 None	3355	81.75%
		1 Yes	384	9.36%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_41	Students actively participate in class discussion or seatwork (Code this when there is evidence that most students are actively engaged in class work)			
		0 None	1858	45.27%
		1 Yes	1881	45.83%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_42	Observed instruction focuses on a project being carried out over several class periods (Code this when it appears the work students are doing has been carried over from previous work and/or will not be completed for several more lessons.)			
		0 None	3733	90.96%
		1 Yes	6	0.15%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_43	Observed instruction focuses on a simulation/lab experiment (Code only when students if students did or are doing the simulation or experiment, not when a simulation or experiment done by someone (e.g., a scientist) is being discussed)			

		0 None	3718	90.59%
		1 Yes	21	0.51%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_44	Observed instruction requires students to play a game (Do not code recess in this category. Game must be instructional in intent.)			
		0 None	3724	90.74%
		1 Yes	15	0.37%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_45	Instruction includes use of non-print media (video, art, music) in lesson (Code any time instruction involves non-print media.)			
		0 None	3719	90.62%
		1 Yes	20	0.49%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_46	Instruction focuses on a news article/opinion column/current event Code if these are the focus of the lesson. Do not code this if focus is just incidental (i.e., mentioned in class).			
		0 None	3696	90.06%
		1 Yes	43	1.05%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>

Consolidate

A_47	Teacher summarizes what has been presented/taught previously (Teacher must actively summarize past content, not simply mention that content was taught. For example, "yesterday we learned about x" is not a summary unless x is elaborated on.)			
		0 None	3426	83.48%
		1 Yes	313	7.63%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_48	Teacher relates current class content to past content (Code this anytime teacher explains relation of current content to past content. Do not code this if teacher says, "yesterday we did x and today we are going to do y." Teacher must point to why these topics are related to each in other (e.g., as building blocks) or to some larger organizing idea. )			
		0 None	3675	89.55%
		1 Yes	64	1.56%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_49	Teacher describes how current class content relates to content to be covered in the future			
		0 None	3725	90.77%

	1 Yes	14	0.34%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_50	Teacher asks students to recall (in oral or written form) what they previously learned (Code when teacher is not giving a test and has students recall/recite/discuss what was taught before the current day of instruction. Code even if episode is brief.)		
	0 None	3283	80.00%
	1 Yes	456	11.11%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>

Clarify

A_51	Teacher clearly states/lists goal of an instructional activity (Code when teacher states (or has on board) what students are going to learn about or do during the period you are observing.)		
	0 None	3035	73.95%
	1 Yes	704	17.15%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_52	Teacher provides advanced organizer/outline/graphic to represent content (Code if teacher presents outline, graphic, or other tool to help the learner organize information before they learn a new topic or as they are engaging in class work. This does not include students taking notes on their own or using diaries/journals. )		
	0 None	3486	84.94%
	1 Yes	253	6.16%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_53	Teacher provides scoring rubric for class/home work (Code if teacher hands out or verbally describes a scheme by which task/test performance will be evaluated. This could include reference to performance criteria or a marking scheme)		
	0 None	3642	88.74%
	1 Yes	97	2.36%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_54	Teacher clarifies student answers in discussion/board work/group work (Code whenever a teacher is discussing/clarifying/making suggestions for improving student work in whole class or small group instruction.)		
	0 None	3438	83.77%
	1 Yes	301	7.33%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_55	Teacher responds to student questions about content in lecture/discussion/board work/group work		

	Code this whenever a teacher responds to content-related questions from students in whole class, small group, or individualized setting. Do not code if question is procedural (when is this due, can I use pencil, etc.)			
		0 None	3214	78.31%
		1 Yes	525	12.79%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_56	Teacher asks students to revise their own or others' answers in discussion/board work/group work (Code this any time a teacher asks for revisions of student work in large or small group discussion. Teacher can be asking student to revise his/her own work or the work of others.)			
		0 None	3664	89.28%
		1 Yes	75	1.83%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>

### Challenge

A_57	Teacher prompts students to try harder and/or persist in their work (Code when teacher actively prompts students to work harder or improve)			
		0 None	3576	87.13%
		1 Yes	163	3.97%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_58	Teacher discusses student work in relation to performance standards (Code when teacher is actively showing how student work meets explicit performance criteria; is telling students the extent to which they have or have not met explicit performance expectations; or is telling/showing students what they can do to improve their score on a piece of work/test. Do not code this if a teacher is simply asking students to work harder or better. That is coded above. To enter this code, discussion/comments must reference an explicit scoring scheme)			
		0 None	3722	90.69%
		1 Yes	17	0.41%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_59	Lesson focuses on student editing/revisions to previously written work (Code whenever a teacher asks a student to edit or revise their written work. Do not code if revision is requested as part of class discussion.)			
		0 None	3710	90.40%
		1 Yes	29	0.71%
		99 Unobserved	365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_60	Teacher asks questions or assigns tasks that have only a single right answer (Code if teacher evaluating answers as right or wrong and accepts only a single correct response.)			
		0 None	2961	72.15%
		1 Yes	778	18.96%

	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_61	Teacher asks/assigns open-ended questions with more than one possible answer (Code if teacher accepts more than one response as correct or allows for alternative answers.)		
	0 None	3175	77.36%
	1 Yes	564	13.74%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>

#### Cognitive Demand of Tasks

A_62	Students are being asked to find, restate, reproduce, or organize specific information (Code whenever this occurs—whether in whole class or small group recitation/discussion, or in seatwork.)		
	0 None	3652	88.99%
	1 Yes	87	2.12%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_63	Students use a single rule, procedure or routine to complete a task (Code in any setting when this occurs. Code if rule or routine is content based (e.g., application of a rule of grammar, a procedure for doing a mathematical operation, an equation to be solved) or whether the rule or routine is purely procedural (e.g. a rule for organizing a data table)		
	0 None	3507	85.45%
	1 Yes	232	5.65%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_64	Students choose from alternative procedures or routines to complete a task (Code when students can choose among alternative rules, routines or procedures to complete a task)		
	0 None	3726	90.79%
	1 Yes	13	0.32%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_65	Students invent/discuss their own procedures to solve problem/complete task (Code when students are being asked to invent or discuss their own rules, procedures, routines for completing a task.)		
	0 None	3735	91.01%
	1 Yes	4	0.10%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_66	Students compare/contrast/evaluate competing perspectives, arguments, genres, or procedures (Code whenever students are being asked to compare, contrast, evaluate competing alternatives as ways of organizing information, understanding a phenomena, completing a task, communicating with others.)		
	0 None	3732	90.94%
	1 Yes	7	0.17%

	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_67	Teacher models or demonstrates how to reason about a task (e.g., by thinking aloud, showing steps in a procedure) (Code only if the teacher is explicitly modeling or demonstrating. Can occur in any setting (whole class, small group, individualized instruction), and in lecture or discussion.)		
	0 None	3587	87.40%
	1 Yes	152	3.70%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_68	Students describe/justify their reasoning (e.g., by thinking aloud, showing steps in a procedure, finding or using information to justify an answer or point of view) (Code only if students are being asked to do this overtly—in discussion or as a part of their assignment.)		
	0 None	3720	90.64%
	1 Yes	19	0.46%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_69	Students work on a creative writing task, research project, work of art/music (Code this when students are engaged in an open-ended, creative task.)		
	0 None	3716	90.55%
	1 Yes	23	0.56%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>

#### Classroom Management

A_70	Teacher uses gestures/signals to manage student behavior (Code this whether gestures/signals are routine and well known to students or are emergent to the situation.)		
	0 None	2762	67.30%
	1 Yes	977	23.81%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_71	Teacher states/reminds students of classroom management routines/rules (Code only when teacher does this explicitly and is restating/explaining a management rule or routine.)		
	0 None	3697	90.08%
	1 Yes	42	1.02%
	99 Unobserved	365	8.89%
	<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_72	Teacher praises student(s)/class for good behavior (Code even if praise is quick and incidental.)		
	0 None	3709	90.38%
	1 Yes	30	0.73%
	99 Unobserved	365	8.89%

		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_73	Teacher asks/tells student(s) to change behavior (Code this when a teacher asks a student to change their behavior. It might or might not involves also stating a rule)			
	0 None		3134	76.36%
	1 Yes		605	14.74%
	99 Unobserved		365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_74	Teacher uses loud, angry, harsh, threatening tone when managing student behavior (Code this if it is your judgment that this behavior has occurred)			
	0 None		3540	86.26%
	1 Yes		199	4.85%
	99 Unobserved		365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_75	Teacher threatens/uses physical punishment when student(s) misbehave (Code this if it is your judgment that this behavior has occurred)			
	0 None		3579	87.21%
	1 Yes		160	3.90%
	99 Unobserved		365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_76	Teacher threatens/uses non-physical punishment when students misbehave (Code this if it is your judgment that this has occurred)			
	0 None		3713	90.47%
	1 Yes		26	0.63%
	99 Unobserved		365	8.89%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_78	Medium used to teach students			
	1 Nepali		1345	32.77%
	2 English		1286	31.34%
	3 Both		575	14.01%
	97 Teacher was not teaching in classroom		309	7.53%
	99 Unobserved		365	8.89%
	. Missing		224	5.46%
		<b>Total</b>	<b>4104</b>	<b>100.00%</b>
A_79	Reason - Did not observe			
	1 Extracurricular activities		173	4.22%
	2 Computer/Lab/Practical/Library		107	2.61%
	3 Leisure period/Teacher absent		33	0.80%
	4 Staff meeting/Staff meeting with parents		21	0.51%
	5 Class holiday (Pre-DLE leave, exam leave, went -home after exam finished)		12	0.29%
	6 Due to time schedule, observer could not observe.			
	6 School ran in morning, but observer visited during the day		7	0.17%



11	Observation complete	3739	91.11%
51	Refused to be observed	12	0.29%
99	Unobserved	0	0.00%
<b>Total</b>		<b>4104</b>	<b>100.00%</b>

**Thank you**