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ICPSR 34414

Measures of Effective Teaching: Grantee Files, 2009-2011

Bill and Melinda Gates Foundation

Classroom Observation Scores - QST Non-Lab File Codebook

Inter-university Consortium for Political and Social Research
P.O. Box 1248
Ann Arbor, Michigan 48106
www.icpsr.umich.edu

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Variable Description and Frequencies

Note: Frequencies displayed for the variables are not weighted. They are purely descriptive and may not be representative of the study population. Please review any sampling or weighting information available with the study.

Summary statistics (minimum, maximum, mean, median, and standard deviation) may not be available for every variable in the codebook. Conversely, a listing of frequencies in table format may not be present for every variable in the codebook either. However, all variables in the dataset are present and display sufficient information about each variable. These decisions are made intentionally and are at the discretion of the archive producing this codebook.

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Classroom Observation Scores - QST Non-Lab File

DISTRICT_ICPSR_ID	District ICPSR ID

Location: 1-14 (width: 14; decimal: 0)

Variable Type: numeric

Value	*Unweighted Frequency*	*%*
18	984	26.6 %
21	284	7.7 %
33	430	11.6 %
56	394	10.7 %
71	1588	42.9 %
. (M)	18	0.5 %

Based upon 3680 valid cases out of 3698 total cases.

- Mean: 46.92
- Median: 56.00
- Mode: 71.00
- Minimum: 18.00
- Maximum: 71.00
- Standard Deviation: 23.61

SCHOOL_ICPSR_ID	School ICPSR ID

Location: 15-28 (width: 14; decimal: 0)

Variable Type: numeric

Value	*Unweighted Frequency*	*%*
1	48	1.3 %
2	38	1.0 %
3	58	1.6 %
4	44	1.2 %
5	58	1.6 %
6	58	1.6 %
7	22	0.6 %
8	40	1.1 %
9	58	1.6 %
10	78	2.1 %
11	58	1.6 %
12	48	1.3 %
13	70	1.9 %

Value	*Unweighted Frequency*	*%*
14	112	3.0 %
16	60	1.6 %
17	34	0.9 %
18	30	0.8 %
19	60	1.6 %
20	46	1.2 %
21	44	1.2 %
23	4	0.1 %
24	40	1.1 %
25	32	0.9 %
26	28	0.8 %
27	74	2.0 %
28	28	0.8 %
29	46	1.2 %
30	42	1.1 %
31	34	0.9 %
32	36	1.0 %
33	66	1.8 %
34	36	1.0 %
35	24	0.6 %
36	54	1.5 %
37	52	1.4 %
38	42	1.1 %
39	68	1.8 %
40	32	0.9 %
41	32	0.9 %
43	98	2.7 %
44	20	0.5 %
45	24	0.6 %
46	36	1.0 %
47	36	1.0 %
48	62	1.7 %
49	66	1.8 %
50	12	0.3 %
51	34	0.9 %
52	26	0.7 %
53	62	1.7 %
55	38	1.0 %
56	40	1.1 %
57	16	0.4 %

Value	*Unweighted Frequency*	*%*
58	144	3.9 %
61	26	0.7 %
62	34	0.9 %
63	36	1.0 %
65	68	1.8 %
66	36	1.0 %
67	86	2.3 %
68	60	1.6 %
69	46	1.2 %
71	54	1.5 %
72	52	1.4 %
73	118	3.2 %
74	64	1.7 %
76	58	1.6 %
77	42	1.1 %
78	24	0.6 %
79	114	3.1 %
82	78	2.1 %
315	108	2.9 %
317	28	0.8 %
. (M)	18	0.5 %

Based upon 3680 valid cases out of 3698 total cases.

- Mean: 50.97
- Median: 43.00
- Mode: 58.00
- Minimum: 1.00
- Maximum: 317.00
- Standard Deviation: 57.16

TEACHER_ICPSR_ID **Teacher ICPSR ID**

Location: 29-42 (width: 14; decimal: 0)

Variable Type: numeric

Based upon 3692 valid cases out of 3698 total cases.

- Mean: 662.21
- Median: 291.00
- Mode: 2681.00
- Minimum: 1.00
- Maximum: 2753.00
- Standard Deviation: 927.30

SECTION_ICPSR_ID	Section ICPSR ID

Location: 43-56 (width: 14; decimal: 0)

Variable Type: numeric

Based upon 3660 valid cases out of 3698 total cases.

- Mean: 3095.25
- Minimum: 1.00
- Maximum: 6476.00
- Standard Deviation: 2773.44

VIDEO_ICPSR_ID	Video ICPSR ID

Location: 57-170 (width: 114; decimal: 0)

Variable Type: character

Based upon 3698 valid cases out of 3698 total cases.

SEGNO	Segment Number (1 is first segment, 2 is second?)

Location: 171-184 (width: 14; decimal: 0)

Variable Type: numeric

Value	*Unweighted Frequency*	*%*
1	1849	50.0 %
2	1849	50.0 %

Based upon 3698 valid cases out of 3698 total cases.

- Mean: 1.50
- Median: 1.50
- Minimum: 1.00
- Maximum: 2.00
- Standard Deviation: 0.50

RATERID	Rater MET ID

Location: 185-208 (width: 24; decimal: 0)

Variable Type: character

Value	*Unweighted Frequency*	*%*
	22	0.6 %
19338	92	2.5 %
19372	164	4.4 %
24915	38	1.0 %
25690	18	0.5 %
32088	106	2.9 %

Value	*Unweighted Frequency*	*%*
32245	18	0.5 %
35192	18	0.5 %
38151	96	2.6 %
38153	92	2.5 %
49443	140	3.8 %
50039	184	5.0 %
50046	22	0.6 %
50380	176	4.8 %
50392	8	0.2 %
50440	2	0.1 %
50469	30	0.8 %
50472	38	1.0 %
50586	22	0.6 %
51323	68	1.8 %
66157	4	0.1 %
69215	20	0.5 %
76405	56	1.5 %
77695	12	0.3 %
81781	6	0.2 %
82731	2	0.1 %
83516	22	0.6 %
83572	20	0.5 %
83577	92	2.5 %
83812	304	8.2 %
83950	74	2.0 %
84212	74	2.0 %
84346	182	4.9 %
84464	80	2.2 %
84491	100	2.7 %
84935	22	0.6 %
85265	40	1.1 %
85932	46	1.2 %
85934	62	1.7 %
86193	124	3.4 %
86474	160	4.3 %
87267	102	2.8 %
87446	124	3.4 %
89864	12	0.3 %
92782	38	1.0 %
93465	78	2.1 %

Value	*Unweighted Frequency*	*%*
99126	56	1.5 %
99326	278	7.5 %
jciofalo	154	4.2 %

Based upon 3698 valid cases out of 3698 total cases.

GOS — **Group of Scales used in scoring this record**

Location: 209-222 (width: 14; decimal: 0)

Variable Type: numeric

Value	*Unweighted Frequency*	*%*
51	1892	51.2 %
52	1806	48.8 %

Based upon 3698 valid cases out of 3698 total cases.

- Mean: 51.49
- Median: 51.00
- Mode: 51.00
- Minimum: 51.00
- Maximum: 52.00
- Standard Deviation: 0.50

YEAR — **Year video collected**

Location: 223-236 (width: 14; decimal: 0)

Variable Type: numeric

Value	*Unweighted Frequency*	*%*
2010	1924	52.0 %
2011	1774	48.0 %

Based upon 3698 valid cases out of 3698 total cases.

- Mean: 2010.48
- Median: 2010.00
- Mode: 2010.00
- Minimum: 2010.00
- Maximum: 2011.00
- Standard Deviation: 0.50

GRADE — **Grade of section video came from**

Location: 237-250 (width: 14; decimal: 0)

Variable Type: numeric

Value	*Unweighted Frequency*	*%*
4	6	0.2 %
9	3692	99.8 %

Based upon 3698 valid cases out of 3698 total cases.

- Mean: 8.99
- Median: 9.00
- Mode: 9.00
- Minimum: 4.00
- Maximum: 9.00
- Standard Deviation: 0.20

SUBJECT — **Subject of section video came from**

Location: 251-271 (width: 21; decimal: 0)

Variable Type: character

Value	*Unweighted Frequency*	*%*
Biology	3698	100.0 %

Based upon 3698 valid cases out of 3698 total cases.

DEFERFLAG — **Flag indicating whether rater deferred video and sent it to scoring leader to review**

Location: 272-285 (width: 14; decimal: 0)

Variable Type: numeric

Value	*Unweighted Frequency*	*%*
0	3300	89.2 %
1	92	2.5 %
2	306	8.3 %

Based upon 3698 valid cases out of 3698 total cases.

- Mean: 0.19
- Median: 0.00
- Mode: 0.00
- Minimum: 0.00
- Maximum: 2.00
- Standard Deviation: 0.57

DEFERCOMM — **Notes on the video deferral**

Location: 286-529 (width: 244; decimal: 0)

Variable Type: character

Based upon 3698 valid cases out of 3698 total cases.

PRIMARYSCORE	Indicator of whether this record contains scores from the primary scorer (0 indicates this record is from double scoring)

Location: 530-543 (width: 14; decimal: 0)

Variable Type: numeric

Value	*Unweighted Frequency*	*%*
0	184	5.0 %
1	3514	95.0 %

Based upon 3698 valid cases out of 3698 total cases.

- Mean: 0.95
- Median: 1.00
- Mode: 1.00
- Minimum: 0.00
- Maximum: 1.00
- Standard Deviation: 0.22

QST_CTX	Sets the Context and Focuses Learning on Key Science Concepts Score

Location: 544-557 (width: 14; decimal: 0)

Variable Type: numeric

Value	*Unweighted Frequency*	*%*
1	286	7.7 %
2	698	18.9 %
3	824	22.3 %
4	84	2.3 %
. (M)	1806	48.8 %

Based upon 1892 valid cases out of 3698 total cases.

- Mean: 2.37
- Median: 2.00
- Mode: 3.00
- Minimum: 1.00
- Maximum: 4.00
- Standard Deviation: 0.79

QST_REP	Uses Representations Score

Location: 558-571 (width: 14; decimal: 0)

Variable Type: numeric

Value	*Unweighted Frequency*	*%*
1	415	11.2 %
2	888	24.0 %
3	541	14.6 %
4	48	1.3 %
. (M)	1806	48.8 %

Based upon 1892 valid cases out of 3698 total cases.

- Mean: 2.12
- Median: 2.00
- Mode: 2.00
- Minimum: 1.00
- Maximum: 4.00
- Standard Deviation: 0.77

QST_KNO **Demonstrates Content Knowledge Score**

Location: 572-585 (width: 14; decimal: 0)

Variable Type: numeric

Value	*Unweighted Frequency*	*%*
1	245	6.6 %
2	440	11.9 %
3	1093	29.6 %
4	114	3.1 %
. (M)	1806	48.8 %

Based upon 1892 valid cases out of 3698 total cases.

- Mean: 2.57
- Median: 3.00
- Mode: 3.00
- Minimum: 1.00
- Maximum: 4.00
- Standard Deviation: 0.79

QST_FBK **Provides Feedback for Learning Score**

Location: 586-599 (width: 14; decimal: 0)

Variable Type: numeric

Value	*Unweighted Frequency*	*%*
1	1059	28.6 %
2	665	18.0 %

Value	*Unweighted Frequency*	*%*
3	151	4.1 %
4	17	0.5 %
. (M)	1806	48.8 %

Based upon 1892 valid cases out of 3698 total cases.

- Mean: 1.54
- Median: 1.00
- Mode: 1.00
- Minimum: 1.00
- Maximum: 4.00
- Standard Deviation: 0.68

QST_IM **Promotes Students' Interest and Motivation to Learn Science Score**

Location: 600-613 (width: 14; decimal: 0)

Variable Type: numeric

Value	*Unweighted Frequency*	*%*
1	279	7.5 %
2	820	22.2 %
3	602	16.3 %
4	105	2.8 %
. (M)	1892	51.2 %

Based upon 1806 valid cases out of 3698 total cases.

- Mean: 2.30
- Median: 2.00
- Mode: 2.00
- Minimum: 1.00
- Maximum: 4.00
- Standard Deviation: 0.80

QST_TASK **Assigns Tasks to Promote Learning and Addresses the Task Demands Score**

Location: 614-627 (width: 14; decimal: 0)

Variable Type: numeric

Value	*Unweighted Frequency*	*%*
1	404	10.9 %
2	782	21.1 %
3	578	15.6 %
4	42	1.1 %

Value	*Unweighted Frequency*	*%*
. (M)	1892	51.2 %

Based upon 1806 valid cases out of 3698 total cases.

- Mean: 2.14
- Median: 2.00
- Mode: 2.00
- Minimum: 1.00
- Maximum: 4.00
- Standard Deviation: 0.79

QST_MDE **Uses Modes of Teaching Science Concepts Score**

Location: 628-641 (width: 14; decimal: 0)

Variable Type: numeric

Value	*Unweighted Frequency*	*%*
1	552	14.9 %
2	695	18.8 %
3	508	13.7 %
4	51	1.4 %
. (M)	1892	51.2 %

Based upon 1806 valid cases out of 3698 total cases.

- Mean: 2.03
- Median: 2.00
- Mode: 2.00
- Minimum: 1.00
- Maximum: 4.00
- Standard Deviation: 0.84

QST_KCU **Elicits Evidence of Students' Knowledge and Conceptual Understanding Score**

Location: 642-655 (width: 14; decimal: 0)

Variable Type: numeric

Value	*Unweighted Frequency*	*%*
1	441	11.9 %
2	1015	27.4 %
3	282	7.6 %
4	68	1.8 %
. (M)	1892	51.2 %

Based upon 1806 valid cases out of 3698 total cases.

- Mean: 1.99
- Median: 2.00
- Mode: 2.00
- Minimum: 1.00
- Maximum: 4.00
- Standard Deviation: 0.74

QST_BOARDCAMQUAL	Score for quality of board camera

Location: 656-697 (width: 42; decimal: 0)

Variable Type: character

Value	*Unweighted Frequency*	*%*
High quality	2004	54.2 %
Low quality	568	15.4 %
Medium quality	1126	30.4 %

Based upon 3698 valid cases out of 3698 total cases.

QST_PANCAMQUAL	Score for quality of panoramic camera

Location: 698-739 (width: 42; decimal: 0)

Variable Type: character

Value	*Unweighted Frequency*	*%*
High quality	2140	57.9 %
Low quality	190	5.1 %
Medium quality	1368	37.0 %

Based upon 3698 valid cases out of 3698 total cases.

QST_AUDIOQUAL	Score for quality of audio

Location: 740-781 (width: 42; decimal: 0)

Variable Type: character

Value	*Unweighted Frequency*	*%*
High quality	2788	75.4 %
Low quality	84	2.3 %
Medium quality	826	22.3 %

Based upon 3698 valid cases out of 3698 total cases.

FOCALTOPIC	Teacher indicated focal topic of the lesson (see user guide for details)

Location: 782-934 (width: 153; decimal: 0)

Variable Type: character

Value	*Unweighted Frequency*	*%*
Evolution	228	6.2 %
Genetics and Inherited Characteristics	1358	36.7 %
Interdependence of Organisms	428	11.6 %
Matter and Energy Transformations in Living Systems	516	14.0 %
NULL	12	0.3 %
Plants	40	1.1 %
Random Topic	1116	30.2 %

Based upon 3698 valid cases out of 3698 total cases.