

KENYA - Classroom Observation Study: Quality of Teaching and Learning in Primary Schools in Kenya, Cross-sectional survey in 6 districts in Kenya

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Overview

Identification

ID NUMBER

APHRC-ClassObs-2011-1.2

Version

VERSION DESCRIPTION

VERSION_CLSOBS: 1.1

NOTES

Version 1.2, 2014. Anonymized with DOI and Recommended Citation added.

Overview

ABSTRACT

1.1 Preamble

This study was funded by Google.org. The study began in 2008 and will end in 2011. Field work was done between May and July 2009 for the first round and February and March 2010 for the second round. The purpose of this field report is (1) to document how the data was collected; (2) to act as a reference to those who will be writing scientific papers, processing, and analyzing the data; and (3) to consolidate the findings for purposes of sharing with key stakeholders including teachers and Ministry of Education. The report has five sections: Section 1 presents the study background. Section two presents data collection issues. Section three outlines the district and individual school reports. Section four captures the challenges experienced. Section five outlines the lessons learnt and recommendations for future classroom-based studies.

1.2 Purpose of the study

The purpose of this study was to examine the teaching process and generate information relevant to objective policy advice on the quality of teaching and learning. The intention is that by sharing the evidence generated by this study with policy makers, it is hoped that it will lead to the improvement of the quality of teaching in primary schools in Kenya. It sought to understand whether classroom interactions, including how aspects such as 'Opportunity to Learn' explain learning achievement.

1.3 Research questions guiding the study

The following are the main research questions guiding the study. However, the data collected is rich on teaching practice information and will make it possible to answer several other research questions.

- a). What are the differences and similarities in teaching practice among teachers in high and low performance schools?
- b). Does the observed teaching practice explain student achievement?
- c). Do teacher attributes explain student's learning achievement?
- d). What policy recommendations on teaching practices can improve the quality of teaching in primary education?

Based on the guiding research questions, the following research papers have been conceptualized and are being finalized for publication as publicly available and accessible APHRC Working Papers.

- a) Do teachers who have a good understanding of maths demonstrate better teaching practice in the classrooms?
- b) Does teaching practice explain differences in learner achievement in low and high performing schools?
- c) Social relations as predictors of achievement in maths in Kenya primary schools.

Other questions that the data may help to answer

- a) Do opportunities to learn (measured by teacher absenteeism, curriculum completion, and bullying and class size) explain learning gains.
- b) To what extent do student characteristics, classroom sitting arrangements and classroom participation explain learning gains?
- c) Assess whether female and male teachers differ in mathematics teaching and content knowledge, and whether this is reflected in pupils' mathematics performance.

UNITS OF ANALYSIS

Pupils

Schools

Scope

NOTES

Schools: School information, classroom observation, headteacher support, parental involvement

Pupils: Tests scores, characteristics

TOPICS

Topic	Vocabulary	URI
none		

KEYWORDS

Quality, Classroom Observation, Kenya, Test scores, Pedagogy, Active teaching, Teaching style, Time on task, Video observation

Coverage

GEOGRAPHIC COVERAGE

Six districts in Kenya: Embu, Nairobi, Gucha, Garissa, Muranga and Baringo and 12 schools in each district

UNIVERSE

Grade 6 pupils in the selected schools, the headteacher and Math, English and Science Teachers

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
African Population and Health Research Center	APHRC

OTHER PRODUCER(S)

Name	Affiliation	Role
Dr. Moses Ngware	APHRC	Primary Investigator
Dr. Moses Oketch	APHRC	Investigator

FUNDING

Name	Abbreviation	Role
Google.Org		Funder

OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
Study participants		
Funders, Google.org		
APHRC Reseachers		
Data entry clerks		
District Education Offices		

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
African Population and Health Research Center	APHRC	APHRC	Metadata Producer

DATE OF METADATA PRODUCTION

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Sampling

Sampling Procedure

The target was districts that had consistently performed at the bottom, middle and top for 5 consecutive years. The selection of the best and poor performing districts and schools, the Kenya Certificate of Primary Education (KCPE) results of the last five years available were used to rank districts (nationally) and schools (at district level). School performance in national examinations (a proxy indicator for student achievement) in Kenya varies by geographical and ecological regions of the country. Based on the distribution of school mean scores in a district, schools were categorized as low performing and high performing schools in any given year.

Specifically, six districts in Kenya, two that have consistently been ranked in the bottom 10% of the KCPE examinations over the past 4 years, two that have been consistently ranked within the middle 20% and another two that have consistently been ranked in the top 10% over the same period were selected for the study. A total of 72 schools, 12 in each of the six districts were randomly selected for the study. The schools selected for the study included six that had consistently been ranked in the bottom 20%, and six that had consistently been ranked in the top 20%. A further selection criterion for the schools ensured a mix of rural, peri-urban and urban schools in the sample. While taking a national representation into account, the sample size was influenced by resource availability.

In the selected schools, grade six pupils were included. In case of multi-streams one grade was randomly selected.

Response Rate

Total of 72 schools, all the head teachers interviewed, 2436 pupils, 213 teachers

Weighting

None

Questionnaires

Overview

Survey instruments:

- Head teacher questionnaire: This instrument solicited information on school management, staffing, enrolment and parental participation in school affairs, among others.
- Teacher questionnaire: This solicited for information on biodata, qualification and training, discipline and syllabus coverage. The questionnaire was administered to grade six Maths, English and Science teachers.
- Learner questionnaire: The questionnaire solicited information on social economic background of the grade six learners and the school environment. This questionnaire was administered to grade six pupils in the selected schools.

Assessment tools:

- Mathematics teacher assessment tool, for grade six math teachers.
- Learner mathematics assessment tool, for pupils in the selected grade six streams.

Classroom observation and checklist tools:

- Classroom observation checklist: The checklist solicited information on availability of relevant textbooks, teacher and student made teaching and learning materials, other teaching resources, enrolment, learner absenteeism and lesson preparation.
- Opportunity to Learn (OTL) form: This form collected information from grade six exercise books that a learner used between January and November 2009. The information collected included date when the lesson was taught, and the main topic and subtopic as defined in grade six subject syllabus. In the absence of a main topic or subtopic, some contents of the lesson were recorded. These were later to be matched with main topic and subtopic from the s

Data Collection

Data Collection Dates

Start	End	Cycle
2009-05-25	2009-07-07	R1 - complete survey
2010-02-01	2010-02-04	R2 - re-assessed pupils

Time Periods

Start	End	Cycle
2009-06-15		R1
2010-03-01		R2

Data Collection Mode

Face-to-face [f2f]

Questionnaires

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Supervision

Data collection, coordination and quality assurance

To administer the instruments at school level, the research team arrived at school before the start of the school day (except in cases where logistics could not allow) and introduced themselves to the head teacher, deputy head teacher or school manager in the case of private schools. Prior to the data collection, a researcher visited the school to inform the management about the intended data collection exercise. During such visits, the head teachers and managers or their representative were briefed on the study. School heads or managers either consented or declined to give permission for the study to be conducted within their schools. Schools that declined were immediately replaced following the selection criteria that had been described above. Four private and one public school declined to participate in the study. Out of these schools that declined, three were private schools and a public school in Nairobi; the fourth private school was in Murang'a district.

Video recording was done during a normal lesson as stipulated in the school time table. Individual questionnaires were administered to headteachers and teachers while group questionnaires were administered to learners. For the learner numeracy assessment test, the field interviewer read the items to those who were not able to read on their own. Learners were given ample time to finish completing the questionnaire. The instrument captured both the test start and end times for each learner.

Data collection was done using four teams; each handling a school per day. The teams often consisted of two groups of four and two groups of three. Those with four members handled schools with high number of pupils. The composition of groups was done taking into consideration individual characteristics, abilities and background. It was also agreed that the teams

remain temporary and hence regrouping was often done as a means of: 1) ensuring the FIs concentrate on the work, 2) improving the working relationship among all members and, 3) enhancing team building and teamwork. Such measures were taken to enhance the groups' productivity and maintain the quality of work done. These strategies proved to be very productive.

In the schools, the teams randomly selected one grade six class in cases where there was more than one stream. The numeracy test, learner questionnaire and maths lesson filming took place in this selected grade. The observations of English and Science lessons were done in the other grade 6 streams. This enabled interviewing to take place concurrently in different grade 6 streams. The interviews and assessment involved all the grade six pupils in the selected stream.

The mathematics teacher was observed while teaching a mathematics lesson and the lesson was captured on video for post-analysis. The teacher was also interviewed in order to establish his professional or teaching practices, and other attributes. The same was done for the English and Science teachers. Only the mathematics teacher sat for a numeracy assessment test. In addition, the head teacher provided information about the school. However, it was not always possible to find the respondents (teachers) in school. The absence of teachers necessitated callbacks. Proper planning and scheduling of callbacks therefore was considered an essential element of the whole process of coordinating data collection. Callbacks were done concurrently with data collection, or the research groups reorganized themselves to facilitate them.

To ensure the accurateness and completeness in data collection, a Master Data Sheet was kept where all the data sheets and questionnaires collected were tracked for the entire project period. Regular back checks and cleaning-up of questionnaires was also done in the field to ensure all the required data are sufficiently captured before leaving a particular district. Daily meetings were also held with team leaders to share lessons and give feedback on the findings of the field supervisor and team leaders' regular back checks in the filled questionnaires and spot checks. Regular meetings were also held with all members of the research team to discuss the progress of the study as well as various issues affecting the whole group. Important decisions were made and lessons shared on the appropriate ways of maintaining the productivity and quality of work done.

Different education researchers from APHRC visited the field a day or two before the team broke camp to go to the next district for purposes of spot checks and to monitor the progress, replenish survey instruments and address any challenges facing the field staff. The field supervisor and team leaders on the other hand carried out quality assurance activities such as performing random back-checks and cleaning to validate and ensure the accurateness and completeness of data collected as is normally done in all education field activities.

Data Processing

Data Editing

Data editing took place at a number of stages throughout the processing, including:

- a) Office editing and coding
- b) During data entry
- c) Structure checking and completeness
- d) Secondary editing

Other Processing

Data entry was performed manually at APHRC's headquarters on desktop computers and was done using an in-house built system with a Microsoft Visual Basic and MS SQL softwares.

Data Appraisal

No content available

File Description

Variable List

TeacherXteristics

Content	
Cases	213
Variable(s)	175
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V1	tchID	Teacher uniq ID	contin	numeric	
V3	sex	gender of the teacher	discrete	numeric	2.1 FI: INDICATE SEX OF TEACHER/RESPONDENT
V4	dob	Date of birth	discrete	character	2.2 What is the date of your birth?
V5	subject	Subject	discrete	numeric	
V7	KNECcode_cur	Current KNEC code	contin	numeric	1.6 CURRENT KENYA NATIONAL EXAMINATION INDEX FOR THE SCHOOL
V9	distr	District sampled	discrete	numeric	
V10	prov	School province	discrete	numeric	
V11	doi	Date of interview	discrete	character	DATE OF INTERVIEW
V12	fw	Field interviewer fw	discrete	numeric	1.3 FIELD INTERVIEWER'S (FI) CODE
V13	tl	Team leader	discrete	numeric	6.5 FIELD SUPERVISOR/TEAM LEADER'S CODE
V14	dec	Data entry clerk	discrete	numeric	6.6 DATA ENTRY CLERK'S CODE
V15	intrate	Interview rating	discrete	numeric	6.2 RATE THE INTERVIEW
V16	intresult	Result of interview	discrete	numeric	6.3 RESULT OF INTERVIEW
V17	q111_tconsent	Do you agree to participate in the study?	discrete	numeric	Would you like to participate in this research?
V18	q23_tedulevel	Highest ACADEMIC EDUCATION attained?	discrete	numeric	What is the highest level of academic education you have attained?
V19	q24_prestrain	Highest level of preservice teacher training?	discrete	numeric	What is the highest level of certification of your pre-service teacher training?
V20	q25_preserviceyrs	Number of years attended pre-service training?	discrete	numeric	How many years of pre-service teacher training have you recieved alltogether?
V21	q26_prepared	how adequately is name preparted to teach subject caricullum	discrete	numeric	How adequately do you feel prepared for teaching the Mathematics/Science/English curriculum?
V22	q27_insertrain	Number of inservice teacher training attended in last 18mths	discrete	numeric	In the last 18 months, how many in-service teacher training short courses have you attended that were specific to Mathematics/Science/English?
V23	q28_coursename	Names of the teaching courses attended	discrete	character	Mention the names of the in-service teacher training short courses attended

ID	Name	Label	Type	Format	Question
V24	q29_daystrain	Number of days attended in service training	discrete	numeric	How many days altogether have you attended this in-service?
V25	q210_teachyrs	Number of years being a teacher	discrete	numeric	How many complete years (including this year 2009) have you been a school teacher?
V26	q211_schtys	Number of yrs as a techer in this school	discrete	numeric	How many complete years (including this year 2009) have you been a school teacher at this school?
V27	q212_subtchr	Number of years have you been a subject teacher	discrete	numeric	How many complete years (including this year 2009) have you been a Mathematics/Science/English teacher?
V28	q213_g6subtchr	Years been grade six subject teacher	discrete	numeric	How many complete years (including this year 2009) have you been a Mathematics/Science/English teacher in class 6?
V29	q214_g6substream	Number of grade six teaches english	discrete	numeric	How many streams of class six do you teach Mathematics/Science/English?
V30	q215a_stream	Specific streams	discrete	character	Which are those streams?
V31	q215b_stream	Specific streams	discrete	character	Which are those streams?
V32	q215c_stream	Specific streams	discrete	character	Which are those streams?
V33	q216_lessons	Number of grade 6 subject lessons per week	contin	numeric	In total, how many Mathematics/Science/English lessons do you teach in class six in a week?
V34	q217_htobs	How often shool head watches you teach	discrete	numeric	How often does the school Head teacher watch you teach Mathematics/Science/English?
V35	q218_dhtobs	How ofteh DHTeacher or other watches you teach	discrete	numeric	How often does the deputy Head teacher/HOD/Senior teacher/master teacher in the school watch you teach Mathematics/Science/English?
V36	q219_subadvisor	Number of times subject advisor visited in the last 18 months	discrete	numeric	How many times did a Mathematics/Science/English curriculum or subject advisor from the zonal/division/district or province visit you in your classroom, at this or any other school in the last 18 months?
V37	q220a_learnwork	Looked at learners work in class	discrete	numeric	Which of the following activities did the Mathematics/Science/English curriculum or subject advisor undertake if s/he visited?
V38	q220b_checkfiles	Checked my files and records	discrete	numeric	Which of the following activities did the Mathematics/Science/English curriculum or subject advisor undertake if s/he visited?
V39	q220c_discteachin	Discussed my teaching & areas to improv	discrete	numeric	Which of the following activities did the Mathematics/Science/English curriculum or subject advisor undertake if s/he visited?
V40	q220d_sugtrain	Suggested attending training session	discrete	numeric	Which of the following activities did the Mathematics/Science/English curriculum or subject advisor undertake if s/he visited?
V41	q220e_explcurr	Explained caricullum content	discrete	numeric	Which of the following activities did the Mathematics/Science/English curriculum or subject advisor undertake if s/he visited?

ID	Name	Label	Type	Format	Question
V42	q220f_recoteachmat	Recomended new teaching materials or methods	discrete	numeric	Which of the following activities did the Mathematics/Science/English curriculum or subject advisor undertake if s/he visited?
V43	q220g_gavetxbks	Gave me new materials and text books	discrete	numeric	Which of the following activities did the Mathematics/Science/English curriculum or subject advisor undertake if s/he visited?
V44	q220h_others	Other-specified	discrete	numeric	Which of the following activities did the Mathematics/Science/English curriculum or subject advisor undertake if s/he visited?
V45	q220h_othspecity	Others-specified	discrete	character	Which of the following activities did the Mathematics/Science/English curriculum or subject advisor undertake if s/he visited?
V46	q221_topicA	Maths/Science/English: WNUMBERS/HUMAN BODY/HEALTH & HYGIENE resp.	discrete	numeric	Have you covered any of the following Mathematics/Science/English topics so far in your class 6 this year?
V47	q221_topicB	Maths/Science/English: FRACTIONS/HEALTH EDUC/SHOPPING resp.	discrete	numeric	Have you covered any of the following Mathematics/Science/English topics so far in your class 6 this year?
V48	q221_topicC	Maths/Science/English: DECIMALS/PLANTS/CELEBRATIONS resp.	discrete	numeric	Have you covered any of the following Mathematics/Science/English topics so far in your class 6 this year?
V49	q221_topicD	Maths/Science/English: PERCENTAGES/WEATHER/DRUGS resp.	discrete	numeric	Have you covered any of the following Mathematics/Science/English topics so far in your class 6 this year?
V50	q221_topicE1	Maths/Science/English: WNUMBERS/ANIMALS/DIRECTION resp.	discrete	numeric	Have you covered any of the following Mathematics/Science/English topics so far in your class 6 this year?
V52	q221_topicE3	Maths: DECIMALS	discrete	numeric	Have you covered any of the following Mathematics topics so far in your class 6 this year?
V53	q221_topicE4	Maths: PERCENTAGES	discrete	numeric	Have you covered any of the following Mathematics topics so far in your class 6 this year?
V51	q221_topicE2	Maths: FRACTIONS	discrete	numeric	Have you covered any of the following Mathematics topics so far in your class 6 this year?
V54	q221_topicF	Maths/Science/English: MEASUREMENT/WATER/HOME resp.	discrete	numeric	Have you covered any of the following Mathematics/Science/English topics so far in your class 6 this year?
V55	q221_topicG	Maths/Science/English: AREA/SOIL/ACCIDENTS resp.	discrete	numeric	Have you covered any of the following Mathematics/Science/English topics so far in your class 6 this year?
V56	q221_topicH	Maths/Science/English: PERIMETER/FOOD & NUTR/TRAVEL resp.	discrete	numeric	Have you covered any of the following Mathematics/Science/English topics so far in your class 6 this year?
V57	q221_topicI	Maths/Science/English: VOLUME/ENERGY/VIRTUES resp.	discrete	numeric	Have you covered any of the following Mathematics/Science/English topics so far in your class 6 this year?
V58	q221_topicJ	Maths/Science/English: CAPACITY/MATTER/CRAFT resp.	discrete	numeric	Have you covered any of the following Mathematics/Science/English topics so far in your class 6 this year?
V59	q221_topicK	Maths/Science/English: MASS/WORK/ENVIRONMENT resp.	discrete	numeric	Have you covered any of the following Mathematics/Science/English topics so far in your class 6 this year?

ID	Name	Label	Type	Format	Question
V60	q221_topicL	Maths/English: GEOMETRY/ATHLETICS res.	discrete	numeric	Have you covered any of the following Mathematics/English topics so far in your class 6 this year?
V61	q221_topicM	Maths/English: MONEY/LABOUR res.	discrete	numeric	Have you covered any of the following Mathematics/English topics so far in your class 6 this year?
V62	q221_topicN	Maths/English: MODELS/GAMES res.	discrete	numeric	Have you covered any of the following Mathematics/English topics so far in your class 6 this year?
V63	q221_topicO	Maths/English: ALGEBRA/ART res.	discrete	numeric	Have you covered any of the following Mathematics/English topics so far in your class 6 this year?
V64	q221_topicP	Maths: SCALE resp.	discrete	numeric	Have you covered any of the following Mathematics topics so far in your class 6 this year?
V65	q222_totlesson	total lessons in all subjects in school	contin	numeric	In total, how many lessons do you teach in all subjects and classes in this school in a week?
V66	q223_learndiscip	how often do you deal with learner discipline problems	discrete	numeric	How often do you deal with learner discipline problems?
V67	q224_lhurtl	how often learners hurt other learners	discrete	numeric	How often do learners in the school threaten or hurt other learners?
V68	q225_thurtl	how often teachers hurt learners	discrete	numeric	How often do teachers in the school threaten or hurt learners physically?
V69	q226_ohurtl	how often outsiders hurt learners	discrete	numeric	How often do outsiders threaten or hurt learners in your school?
V70	q227_outschactivity	Activity that takes teacher most often out of class	discrete	numeric	What activity takes you out of school most often?
V71	q228_transmeans	Typical means of transport to school	discrete	numeric	What is your typical means of transport from your residence to this school?
V72	q229_timetosch	How long it takes to get to school in minutes	contin	numeric	Using this means (in 2.27), how long does it take you to get to school?
V73	q231a_discipline	Discipline	discrete	numeric	Do you frequently face discipline problems in your class(es)?
V74	q231b_lackresource	Lack of resources/Finances/Poverty/Hunger	discrete	numeric	Do you frequently face lack of resources/finances/poverty/hunger problems in your class(es)?
V75	q231c_lackparinvol	lack of parental involvement	discrete	numeric	Do you frequently face lack of parental/family involvement problems in your class(es)?
V76	q231d_bullying	Bullying/Fighting among pupils	discrete	numeric	Do you frequently face bullying/fighting among pupils problems in your class(es)?
V77	q231e_security	Safety/security	discrete	numeric	Do you frequently face safety/security problems in your class(es)?
V78	q231f_tabsent	Teacher absenteeism	discrete	numeric	Do you frequently face teacher absenteeism problems in your class(es)?
V79	q231g_labsent	Learner absenteeism	discrete	numeric	Do you frequently face learner absenteeism problems in your class(es)?
V80	q231h_bigclsize	Big class size	discrete	numeric	Do you frequently face big size class problems in your class(es)?
V81	q231i_lacktchrs	lack of teachers	discrete	numeric	Do you frequently face lack of teachers problem in your class(es)?

ID	Name	Label	Type	Format	Question
V82	q231j_lwork	Leaners not doing their work	discrete	numeric	Do you frequently face learners not doing their work problems in your class(es)?
V83	q231k_twork	Teachers not doing their work	discrete	numeric	Do you frequently face teachers not doing their work/lack of good understanding problems in your class(es)?
V84	q231l_language	language barrier	discrete	numeric	Do you frequently face language problems in your class(es)?
V85	q231m_tinterest	teachers lacking knowledge and or interest	discrete	numeric	Do you frequently face lack of knowledge/no interest problems in your class(es)?
V86	q231n_linterest	Learners lacking interest	discrete	numeric	Do you frequently face no interest (on pupils part) problems in your class(es)?
V87	q231o_newpolicies	new policies/workload/cannot cover syllabus	discrete	numeric	Do you frequently face new policies/work load/cannot cover the syllabus problems in your class(es)?
V88	q232_rescenter	Is there an education resource center near you?	discrete	numeric	Is there an education resource center which serves your school?
V89	q233_visitcenter	in the last 18 months have you visited the center?	discrete	numeric	Have visited the education resource center in the last 18 months?
V90	q234a_borrowmat	Borrow teaching materials	discrete	numeric	What reasons made you visit the education resource center?
V91	q234b_makemat	Make teaching materails	discrete	numeric	What reasons made you visit the education resource center?
V92	q234c_attendtrain	Attend training	discrete	numeric	What reasons made you visit the education resource center?
V93	q234d_exngeideas	Exchange ideas with other teachers	discrete	numeric	What reasons made you visit the education resource center?
V94	q234e_seekadvice	Seek advice from the staff	discrete	numeric	What reasons made you visit the education resource center?
V95	q234f_other	Other-specified	discrete	character	What reasons made you visit the education resource center?
V96	q31a_dnpaper	Do your household have daily newspapers	discrete	numeric	Do you have access to a daily newspaper in the place (home) where you stay during the school week?
V97	q31b_magazine	Do your household own: q31b_magazine	discrete	numeric	Do you have access to a weekly or monthly magazine in the place (home) where you stay during the school week?
V98	q31c_radio	Do your household own: q31c_radio	discrete	numeric	Do you have access to a radio in the place (home) where you stay during the school week?
V99	q31d_tv	Do your household own: q31d_tv	discrete	numeric	Do you have access to a tv set in the place (home) where you stay during the school week?
V100	q31e_vcd	Do your household own: q31e_vcd	discrete	numeric	Do you have access to a video cassette recorder (VCR)/DVD in the place (home) where you stay during the school week?
V101	q31f_cassette	Do your household own: q31f_cassette	discrete	numeric	Do you have access to a cassette player in the place (home) where you stay during the school week?
V102	q31g_telephone	Do your household own: q31g_telephone	discrete	numeric	Do you have access to a telephone/mobile phone in the place (home) where you stay during the school week?

ID	Name	Label	Type	Format	Question
V103	q31h_fridge	Do your household own: q31h_fridge	discrete	numeric	Do you have access to a refrigerator/freezer in the place (home) where you stay during the school week?
V104	q31i_car	Do your household own: q31i_car	discrete	numeric	Do you have access to a car in the place (home) where you stay during the school week?
V105	q31j_motorbike	Do your household own: q31j_motorbike	discrete	numeric	Do you have access to a motorcycle in the place (home) where you stay during the school week?
V106	q31k_bike	Do your household own: q31k_bike	discrete	numeric	Do you have access to a bicycle in the place (home) where you stay during the school week?
V107	q31l_pipedwater	Do your household have piped water	discrete	numeric	Do you have access to piped water in the place (home) where you stay during the school week?
V108	q31m_elec	Do your household have electricity	discrete	numeric	Do you have access electricity, generator, solar to in the place (home) where you stay during the school week?
V109	q31n_table	Do your household have a table to write on	discrete	numeric	Do you have access to a table to write on in the place (home) where you stay during the school week?
V110	q31o_toilet	Do your household have a toilet inside the house	discrete	numeric	Do you have access to a toilet in the house in the place (home) where you stay during the school week?
V111	q32a_cattle	How many q32a_cattle are owned by your household?	discrete	numeric	Approximately how many cattle are owned by the household or place where you stay during the school week
V112	q32b_sheep	How many q32b_sheep are owned by your household?	discrete	numeric	Approximately how many sheep are owned by the household or place where you stay during the school week
V113	q32c_goats	How many q32c_goats are owned by your household?	discrete	numeric	Approximately how many goats are owned by the household or place where you stay during the school week
V114	q32d_horses	How many q32d_horses are owned by your household?	discrete	numeric	Approximately how many horses are owned by the household or place where you stay during the school week
V115	q32e_donkeys	How many q32e_donkeys are owned by your household?	discrete	numeric	Approximately how many donkeys are owned by the household or place where you stay during the school week
V116	q32f_pigs	How many q32f_pigs are owned by your household?	discrete	numeric	Approximately how many pigs are owned by the household or place where you stay during the school week
V117	q32g_poultry	How many q32g_poultry are owned by your household?	discrete	numeric	Approximately how many poultry are owned by the household or place where you stay during the school week
V118	q32h_camels	How many q32h_camels are owned by your household?	discrete	numeric	Approximately how many camels are owned by the household or place where you stay during the school week
V119	q33_light	Source of lighting at home?	discrete	numeric	What is the main source of lighting by which you can read in the place (home) where you stay during the school week?
V120	q41_subjcomment	does school report for each pupil include subject specific comments	discrete	numeric	Does the school report for each pupil include a specific section for comment on Mathematics/Science/English?
V121	q42a_workpairs	Importance: working in pairs/groups to solve problems	discrete	numeric	How important do you consider the following pupil activities in the teaching of Mathematics/Science/English?

ID	Name	Label	Type	Format	Question
V122	q42b_workalone	Importance: Working alone to on problems	discrete	numeric	How important do you consider the following pupil activities in the teaching of Mathematics/Science/English?
V123	q42c_preposters	Importance: preparing projects/posters for class	discrete	numeric	How important do you consider the following pupil activities in the teaching of Mathematics/Science/English?
V124	q42d_usepractical	Importance: Using practical equipment e.g rulers	discrete	numeric	How important do you consider the following pupil activities in the teaching of Mathematics/Science/English?
V125	q42e_homeassign	Importance: Home assignments	discrete	numeric	How important do you consider the following pupil activities in the teaching of Mathematics/Science/English?
V126	q42f_studinterpret	Importance: Studying and interpreting graphs	discrete	numeric	How important do you consider the following pupil activities in the teaching of Mathematics/Science/English?
V127	q42g_recite	Importance: Reciting tables, formulae	discrete	numeric	How important do you consider the following pupil activities in the teaching of Mathematics/Science/English?
V128	q42h_quizzes	Importance: Quizzes, tests, examinations	discrete	numeric	How important do you consider the following pupil activities in the teaching of Mathematics/Science/English?
V129	q43_impactivity	Most important activity	discrete	numeric	Of the eight activities listed above (in question 4.2), select the one you consider to be the most important
V130	q44_signhwork	do parents/guardians sign pupils hwork books	discrete	numeric	Do you ask parents or guardians to sign pupils books to indicate that they have completed their Mathematics/Science/English home assignments?
V131	q45a_goal	How important if goal A	discrete	numeric	How important do you consider the following goals in the teaching of Mathematics/Science/English?
V132	q45b_goal	How important if goal B	discrete	numeric	How important do you consider the following goals in the teaching of Mathematics/Science/English?
V133	q45c_goal	How important if goal C	discrete	numeric	How important do you consider the following goals in the teaching of Mathematics/Science/English?
V134	q45d_goal	How important if goal D	discrete	numeric	How important do you consider the following goals in the teaching of Mathematics/Science/English?
V135	q45e_goal	How important if goal E	discrete	numeric	How important do you consider the following goals in the teaching of Mathematics/Science/English?
V136	q45f_goal	How important if goal F	discrete	numeric	How important do you consider the following goals in the teaching of Mathematics/Science/English?
V137	q45g_goal	How important if goal G	discrete	numeric	How important do you consider the following goals in the teaching of Mathematics?
V138	q46_impactivity	Important activity	discrete	numeric	Of the six(Science and English)/seven(Maths) goals listed above (in question 4.5), select the one you consider to be the most important.
V139	q47a_edayproblem	Approach: Everyday problems	discrete	numeric	How often do you use the following approaches when teaching Mathematics/Science/English?

ID	Name	Label	Type	Format	Question
V140	q47b_wholeclass	Approach: teaching whole class as a group	discrete	numeric	How often do you use the following approaches when teaching Mathematics/Science/English?
V141	q47c_smallgrp	Approach: Teaching in small group	discrete	numeric	How often do you use the following approaches when teaching Mathematics/Science/English?
V142	q47d_individual	Approach: Teaching individually	discrete	numeric	How often do you use the following approaches when teaching Mathematics/Science/English?
V143	q47e_qatech	Approach: Question and answer	discrete	numeric	How often do you use the following approaches when teaching Mathematics/Science/English?
V144	q47f_postfbck	Approach: Giving positive feedback	discrete	numeric	How often do you use the following approaches when teaching Mathematics/Science/English?
V145	q47g_relalifesit	Approach: Relating to evryday life situations	discrete	numeric	How often do you use the following approaches when teaching Mathematics/Science/English?
V146	q47h_basictrain	Approach: Basic training skills	discrete	numeric	How often do you use the following approaches when teaching Mathematics/Science/English?
V147	q47i_explainprocess	Approach: Explaining mathematical process	discrete	numeric	How often do you use the following approaches when teaching Mathematics/Science/English?
V148	q47j_localmaterails	Approach: using available local materials	discrete	numeric	How often do you use the following approaches when teaching Mathematics/Science/English?
V149	q48_writentest	how often do you give pupils written test	discrete	numeric	How often do you give your pupils a written test in Mathematics/Science/English?
V150	q51_noofbks	Number of books in the place u live	discrete	numeric	How many books do you have in your classroom library or book corner?
V151	q52a_sitplaces	How many sitting places do you have in your classroom	contin	numeric	How many of sitting places for pupils (on chairs or on benches) do you have in your classroom or teaching area?
V152	q52b_writeplaces	How many writing places do you have in your classroom	contin	numeric	How many of writing places for pupils (on desks or tables) do you have in your classroom or teaching area?
V153	q53a_wboard	Has classroom has: Usable writing board	discrete	numeric	Is a usable writing board (black, white, green) available in your classroom or teaching area?
V154	q53b_chack	Has classroom has: chalk	discrete	numeric	Is chalk (or other markers) available in your classroom or teaching area?
V155	q53c_wchart	Has classroom has: A wall chart of any kind	discrete	numeric	Is a wall chart of any kind available in your classroom or teaching area?
V156	q53d_cupboard	Has classroom has: A cupboard of locker	discrete	numeric	Is a cupboard or locker available in your classroom or teaching area?
V157	q53e_bsheleves	Has classroom has: One or more bookshelves	discrete	numeric	Is one or more bookshelves available in your classroom or teaching area?
V158	q53f_library	Has classroom has: A classroom library, bk corner	discrete	numeric	Is a classroom library, book corner or book box available in your classroom or teaching area?
V159	q53g_teachtable	Has classroom has: Teacher table	discrete	numeric	Is a teacher's table available in your classroom or teaching area?
V160	q53h_teachchair	Has classroom has: Teacher chair	discrete	numeric	Is a teacher's chair available in your classroom or teaching area?

ID	Name	Label	Type	Format	Question
V161	q54a_map	Have access to a map	discrete	numeric	Do you have access to a map in your school?
V162	q54b_dictionary	Have access to an english dictionary	discrete	numeric	Do you have access to an English dictionary in your school?
V163	q54c_geometric	Have access to a geometric set	discrete	numeric	Do you have access to geometrical instruments in your school?
V164	q54d_tchguide	Have access to teachers guide	discrete	numeric	Do you have access to a teacher's guide (mathematics/science/english) in your school?
V165	q55_hrsweek	Hours spend in a typical school week in lesson preparation	discrete	numeric	How many hours, on average, do you spend in a typical school week working on lesson preparation?
V166	q56_meetpars	how often meet with parents or guardians of the pupils	discrete	numeric	How often do you usually meet with the parents or guardians of the pupils in your class to discuss pupil performance or related matters?
V167	index_score		contin	numeric	
V168	windex_5	wealth quintiles: Five categories	discrete	numeric	
V169	windex_3	wealth quintiles: Three categories	discrete	numeric	
V170	windex_10	10 quantiles of index_score	discrete	numeric	
V171	windex_5_distr	5 quantiles of index_score	discrete	numeric	
V172	windex_3_distr	3 quantiles of index_score	discrete	numeric	
V173	tch_q2_30_p1		contin	numeric	
V174	tch_q2_30		contin	numeric	
V175	tch_q2_30otherspecify		discrete	character	
V176	tch_q2_31		discrete	numeric	
V177	comments	Interview comments	discrete	character	6.1 RECORD COMMENTS ABOUT THE INTERVIEW
V178	schrank	School rank in that district: during sampling	discrete	numeric	

SchXteristics

Content	
Cases	72
Variable(s)	160
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V179	HTID	Head teacher uniq ID	contin	numeric	
V181	sex	gender of the head teacher	discrete	numeric	
V182	dob	Date of birth	discrete	character	2.2 What is the date of your birth?
V184	KNECcode_cur	Current KNEC code	contin	numeric	1.6 CURRENT KENYA NATIONAL EXAMINATION INDEX FOR THE SCHOOL
V185	prov	School province	discrete	numeric	
V186	KNECcode_prev	Previos KNEC code	contin	numeric	1.7 PREVIOUS KENYA NATIONAL EXAMINATION INDEX FOR THE SCHOOL
V187	doi	Date of interview	discrete	character	1.2 DATE OF INTERVIEW
V188	fw	Field interviewer fw	discrete	numeric	1.3 FIELD INTERVIEWER'S (FI) CODE
V189	q111_tconsent	Do you agree YOUR SCHOOL to participate in the stydy?	discrete	numeric	Would you like your school to participate in this study?
V190	q23_htedulevel	HT highest level of ACADEMIC EDUCATION	discrete	numeric	What is the highest level of academic education you have attained?
V191	q24_schys	Number of years HT has been in this school	contin	numeric	How many complete years in total have you been a school Headteacher, including this year?
V192	q25_htschys	Number of years as HT in this school	discrete	numeric	How many complete years in total have you been a school Headteacher at this school, including this year?
V193	q26_transmeans	Typical means of transport to school	discrete	numeric	What is your typical means of transport from your residence to this school?
V194	q27_timetosch	How long it takes to get to school in minutes	discrete	numeric	Using this means in 2.6, how long does it take you to get to school
V195	q28_taskMOSTtime	Task which the HT spends MOST of time in?	discrete	numeric	As a Headteacher in this school, what would you say is the task on which you spend the MOST time?
V196	q29_taskLEASTtime	Task which the HT spends LEAST of time in?	discrete	numeric	As a Headteacher in this school, what would you say is the task on which you spend the LEAST time?
V197	q210_SMOSTimpproblem	What do you think is the most important problem in making SCHOOL good?	discrete	numeric	What do you think is the MOST important problem you face in making this a good school?

ID	Name	Label	Type	Format	Question
V198	q211_LMOSTimpproblem	Important problem facing in dealing with learners	discrete	numeric	What is the MOST important problem you face in dealing with learners in your school?
V199	q212_ifamilies	How many of the learner families do you know?	discrete	numeric	How many of the families of the learners in your school do you know?
V200	q213_tabsenteeism	Is teacher absenteeism a problem?	discrete	numeric	Is teacher absenteeism a significant problem at your school?
V201	q214_TMOSTimpproblem	Most important problem faced dealing with teachers	discrete	numeric	What is the MOST important problem you face in dealing with teachers in your school?
V202	q214_othTMOSTimpproblem	Other important problem faced dealing with teachers	discrete	character	What is the other important problem you face in dealing with teachers in your school?
V203	q215_restechabsent	main reason why teachers are absent?	discrete	numeric	What do you think is the MAIN reason why teachers are absent?
V204	q216_g6complcaric	Teachers in school complete grade 6 curriculum	discrete	numeric	Do you think GRADE SIX teachers in this school complete the required curriculum?
V205	q217_mthslesobs	Do you as the principal do maths lesson observation?	discrete	numeric	Do you as a headteacher do lesson observation of your MATHEMATICS TEACHER?
V206	q218_mthsadvisorvisit	How many times a maths academic/subject advisor visit school-last 18mths	discrete	numeric	How many times did a mathematics curriculum or subject advisor from the zonal/division/district or province visit mathematics teachers in your school in the last 18 months?
V207	q219_learndiscip	how often do you deal with learner discipline problems	discrete	numeric	How often do you deal with learner discipline problems?
V208	q220_lhurtl	how often learners hurt other learners	discrete	numeric	How often do learners in the school hurt or threaten other learners?
V209	q221_thurtl	how often teachers hurt learners	discrete	numeric	How often do teachers in the school hurt or threaten other learners?
V210	q222_ohurtl	how often outsiders hurt learners	discrete	numeric	How often do outsiders hurt or threaten learners in your school?
V211	q223_outschactivity	Activity that takes HT teacher most often out of school	discrete	numeric	What activity takes you out of school most often?
V212	q224_teachimprov	Most responsible for improving teaching in your school	discrete	numeric	Who do you think is the MOST responsible for improving teaching in your school?
V213	q224_oteachimprov	Other most responsible for improving teaching in your school	discrete	character	Who do you think is the OTHER most responsible for improving teaching in your school?
V214	q225_feeding	How often is feeding provided at school	discrete	numeric	How often is school feeding provided at the school?
V215	q226_feedbenefit	Percentage learners benefiting from feeding program	discrete	numeric	What percentage of learners in the school benefit from school feeding?
V216	q31_schtype	School type	discrete	numeric	Who is the main sponsor of your school?
V217	q32_estbyear	Year school established	discrete	numeric	In what year was the school established?
V218	q33a_ftpern	Female permanent teachers	discrete	numeric	In total, how many female permanent teachers are there in your school?
V219	q33a_mtperf	Male permanent teachers	discrete	numeric	In total, how many male permanent teachers are there in your school?

ID	Name	Label	Type	Format	Question
V220	q33b_fttemp	Female temporary teachers	discrete	numeric	In total, how many female temporary teachers are there in your school?
V221	q33b_mttemp	Male temporary teachers	discrete	numeric	In total, how many male temporary teachers are there in your school?
V222	q33c_ftstudent	Female student teachers	discrete	numeric	In total, how many female student teachers are there in your school?
V223	q33c_mtstudent	Male student teachers	discrete	numeric	In total, how many male student teachers are there in your school?
V224	tottchrs	Total number of teachers in the school	contin	numeric	
V225	q34a_ftabpern	Female permanent teachers absent today	discrete	numeric	For whatever reason, how many female permanent teachers in total are absent from school today?
V226	q34a_mtabperf	Male permanent teachers absent today	discrete	numeric	For whatever reason, how many male permanent teachers in total are absent from school today?
V227	q34b_ftabtemp	Female temporary teachers absent today	discrete	numeric	For whatever reason, how many female temporary teachers in total are absent from school today?
V228	q34b_mtabtemp	Male temporary teachers absent today	discrete	numeric	For whatever reason, how many male temporary teachers in total are absent from school today?
V229	q34c_ftabsudent	Female student teachers absent today	discrete	numeric	For whatever reason, how many female student teachers in total are absent from school today?
V230	q34c_mtabstudent	Male student teachers absent today	discrete	numeric	For whatever reason, how many male student teachers in total are absent from school today?
V231	q35_pimtchrs	Number of teachers with primary education	discrete	numeric	Excluding student teachers, how many of the teachers in your school have completed primary education?
V232	q35_jsetchrs	Number of teachers with junior secondary education	discrete	numeric	Excluding student teachers, how many of the teachers in your school have completed junior secondary education?
V233	q35_secOtchrs	Number of teachers with secondary 'O' education	discrete	numeric	Excluding student teachers, how many of the teachers in your school have completed secondary education (O-level)?
V234	q35_secAtchrs	Number of teachers with secondary 'A' education	discrete	numeric	Excluding student teachers, how many of the teachers in your school have completed secondary education (A-Level)?
V235	q35_bectchrs	Number of teachers with bachelors education	discrete	numeric	Excluding student teachers, how many of the teachers in your school have completed Bachelor's degree or higher (other than bachelor of education)?
V236	q35_othtchrs_spec	Other highest level of education specified	discrete	character	Excluding student teachers, how many of the teachers in your school have completed other specified highest level of education?
V237	q35_othtchrs	Number of teachers with other education	discrete	numeric	Excluding student teachers, how many of the teachers in your school have completed other education?
V238	q36_UTtchrs	Number of teachers with no training	discrete	numeric	Excluding student teachers, how many of the teachers in your school have no teacher training?

ID	Name	Label	Type	Format	Question
V239	q36_SCtchrs	Number of teachers with short courses	discrete	numeric	Excluding student teachers, how many of the teachers in your school have completed certificate level of highest professional qualification/teacher training?
V240	q36_ONEYRtchrs	Number of teachers with one year of training	discrete	numeric	Excluding student teachers, how many of the teachers in your school have completed Diploma level of highest professional qualification/teacher training?
V241	q36_TWOYRtchrs	Number of teachers with two years of training	discrete	numeric	Excluding student teachers, how many of the teachers in your school have completed First degree in education level of highest professional qualification/teacher training?
V242	q36_THREEYRtchrs	Number of teachers with three years of training	discrete	numeric	Excluding student teachers, how many of the teachers in your school have completed Post graduate diploma in education level of highest professional qualification/teacher training?
V243	q36_ABOVE3YRtchrs_spec	Number of teachers with more than three years of training-specified	discrete	character	Excluding student teachers, how many of the teachers in your school have completed other specified levels of highest professional qualification/teacher training?
V244	q36_ABOVE3YRtchrs	Number of teachers with more than three years of training	discrete	numeric	Excluding student teachers, how many of the teachers in your school have completed Other training levels of highest professional qualification/teacher training?
V245	q37_notraintchrs	Number of teachers with no training	discrete	numeric	Excluding student teachers, how many of the teachers in your school have completed One in-service teacher training short courses in the last 18 months?
V246	q37_certiftchrs	Number of teachers with certificate training	discrete	numeric	Excluding student teachers, how many of the teachers in your school have completed Two in-service teacher training short courses in the last 18 months?
V247	q37_diplomatchrs	Number of teachers with diploma training	discrete	numeric	Excluding student teachers, how many of the teachers in your school have completed Three in-service teacher training short courses in the last 18 months?
V248	q37_degreetchrs	Number of teachers with degree	discrete	numeric	Excluding student teachers, how many of the teachers in your school have completed Four in-service teacher training short courses in the last 18 months?
V249	q37_pgradtchrs	Number of teachers with post graduate training	discrete	numeric	Excluding student teachers, how many of the teachers in your school have completed More than four in-service teacher training short courses in the last 18 months?
V250	q37_othtraintchrs	Number of teachers with other training	discrete	numeric	Excluding student teachers, how many of the teachers in your school have No in-service teacher training short courses in the last 18 months?
V251	q41a_enrolboys	Total boys enrolled in this school this week	contin	numeric	What is the total enrolment of boys in your school including pupils who are absent this week?

ID	Name	Label	Type	Format	Question
V252	q41b_enrolgirls	Total girls enrolled in this school this week	contin	numeric	What is the total enrolment of girls in your school including pupils who are absent this week?
V253	schpop	School population this week	contin	numeric	
V254	q42a_absentboys	Total boys absent from school this week	contin	numeric	What is the total enrolment of boys in standard six in your school including pupils who are absent this week?
V255	q42b_absentgirls	Total girls absent from school this week	contin	numeric	What is the total enrolment of girls in standard six in your school including pupils who are absent this week?
V256	totabsent	Number absent this week	contin	numeric	
V257	q43_g6streams	Number of grade six streams	discrete	numeric	What is the total number of standard six groups (classes/streams) in your school?
V258	q44_yrinspected	Year the school had a full inspection	discrete	numeric	What was the last year your school had a full inspection by school inspectors/quality assurance officers?
V259	q45a_contcomm	Importance of contacts with local community	discrete	numeric	In your work as a school Head, would you say that contacts with local community is 1=NOT IMPORTANT; 2=OF SOME IMPORTANCE; 3=VERY IMPORTANT
V260	q45b_monpupils	Importance of monitoring pupils progress	discrete	numeric	In your work as a school Head, would you say that monitoring pupils progress is 1=NOT IMPORTANT; 2=OF SOME IMPORTANCE; 3=VERY IMPORTANT
V261	q45c_admntasks	Importance of admn tasks on school functioning	discrete	numeric	In your work as a school Head, would you say that administrative tasks concerning the functioning of the school are 1=NOT IMPORTANT; 2=OF SOME IMPORTANCE; 3=VERY IMPORTANT
V262	q45d_eduobjec	Importance of discussing edu obj with sch tching staff	discrete	numeric	In your work as a school Head, would you say that discussing educational objectives with the teaching staff is 1=NOT IMPORTANT; 2=OF SOME IMPORTANCE; 3=VERY IMPORTANT
V263	q45e_trcdevelp	Importance of activities aimed at prof develo of tchrs	discrete	numeric	In your work as a school Head, would you say that activities aimed at the professional developments of teachers are 1=NOT IMPORTANT; 2=OF SOME IMPORTANCE; 3=VERY IMPORTANT
V264	q45f_schheaddevelp	Importance of activities aimed at prof develo of sch heads	discrete	numeric	In your work as a school Head, would you say that activities aimed at the professional developments of school heads are 1=NOT IMPORTANT; 2=OF SOME IMPORTANCE; 3=VERY IMPORTANT
V265	q46a_mimpactivity	Of acrivities in 4.5, which one is Most important	discrete	numeric	Of the SIX activities listed above, rank the one that you consider to be the most important
V266	q46b_2impactivity	Of acrivities in 4.5, which one second most important	discrete	numeric	Of the SIX activities listed above, rank the one that you consider to be the second most important
V267	q46c_3impactivity	Of acrivities in 4.5, which one third most important	discrete	numeric	Of the SIX activities listed above, rank the one that you consider to be the third most important

ID	Name	Label	Type	Format	Question
V268	q47a_plate	Pupils arriving late at school	discrete	numeric	About how often does the school have to deal with Pupils arriving late at school?
V269	q47b_pabsent	Pupils absenteeism: unjustified absence	discrete	numeric	About how often does the school have to deal with Pupil absenteeism (i.e. Unjustified absence)?
V270	q47c_pskipcl	Pupils skipping classes	discrete	numeric	About how often does the school have to deal with Pupils skipping classes?
V271	q47d_pdrop	Pupils dropping out of school	discrete	numeric	About how often does the school have to deal with Pupils dropping out of school?
V272	q47e_pdisturbcroom	Classroom disturbances by pupils	discrete	numeric	About how often does the school have to deal with Classroom disturbance by pupils?
V273	q47f_pcheat	Cheating by pupils	discrete	numeric	About how often does the school have to deal with Cheating by pupils?
V274	q47g_pabuselang	Use of abusive language by pupils	discrete	numeric	About how often does the school have to deal with Use of abusive language by pupils?
V275	q47h_pvandalism	Vandalism by pupils	discrete	numeric	About how often does the school have to deal with Vandalism by pupils?
V276	q47i_ptheft	Theft by pupils	discrete	numeric	About how often does the school have to deal with Theft by pupils?
V277	q47j_pbulying	Intimidation of bullying of pupils by pupils	discrete	numeric	About how often does the school have to deal with Intimidation or bullying of pupils by pupils?
V278	q47k_pbusestf	Intimidation/verbal abuse of staff by pupils	discrete	numeric	About how often does the school have to deal with Intimidation/verbal abuse of teachers/staff by pupils?
V279	q47l_pinjurestf	Physical injury of staff by pupils	discrete	numeric	About how often does the school have to deal with Physical injury to staff by pupils?
V280	q47m_ppsexharass	Sexual harassment of pupils by pupils	discrete	numeric	About how often does the school have to deal with Sexual harassment of pupils by other pupils?
V281	q47n_ptsexharass	Sexual harassment of teachers by pupils	discrete	numeric	About how often does the school have to deal with Sexual harassment of teachers by other pupils?
V282	q47o_pdruguse	Drug abuse by pupils	discrete	numeric	About how often does the school have to deal with Drug abuse by pupils?
V283	q47p_alcohol	Alcohol abuse or possession by pupils	discrete	numeric	About how often does the school have to deal with Alcohol abuse or possession by pupils?
V284	q47q_pfight	Fights among pupils	discrete	numeric	About how often does the school have to deal with Fights among pupils?
V285	q47r_phealth	Pupils health problems	discrete	numeric	About how often does the school have to deal with Pupil health problems?
V286	q48a_tlate	Teachers arriving late at school	discrete	numeric	About how often does the school have to deal with Teachers arriving late at school?
V287	q48b_tabsent	Teachers absenteeism: unjustified absence	discrete	numeric	About how often does the school have to deal with Teacher absenteeism (i.e. Unjustified absence)?
V288	q48c_tskipcl	Teachers skipping classes	discrete	numeric	About how often does the school have to deal with Teachers skipping classes?

ID	Name	Label	Type	Format	Question
V289	q48d_tbullp	Intimidation of bullying of pupils by Teachers	discrete	numeric	About how often does the school have to deal with Intimidation or bullying of pupils by teachers?
V290	q48e_ttsexharass	Sexual harassment of Teachers by Teachers	discrete	numeric	About how often does the school have to deal with Sexual harassment of teachers by other teachers?
V291	q48f_tpsexharass	Sexual harassment of pupils by Teachers	discrete	numeric	About how often does the school have to deal with Sexual harassment of pupils by teachers?
V292	q48g_tabuselang	Use of abusive language by Teachers	discrete	numeric	About how often does the school have to deal with Use of abusive language by teachers?
V293	q48h_tdruguse	Drug abuse by Teachers	discrete	numeric	About how often does the school have to deal with Drug abuse by teachers?
V294	q48i_talcohol	Alcohol abuse or possession by Teachers	discrete	numeric	About how often does the school have to deal with Alcohol abuse or possession by teachers?
V295	q48j_thealth	Teachers health problems	discrete	numeric	About how often does the school have to deal with Teacher health problems?
V296	q49_schdayslost	Number of school days lost in the last 18 months	contin	numeric	Excluding union related loses (KNUT), public holidays, and post election violence, how many official school days did you lose (i.e. no teaching took place) in the last 18 months as a result of such things as late start of term, organization of examinations, school festivities, national celebrations, storms, security related, riots, parents' disruption, etc?
V297	q410a_schlib	Do you have a school library	discrete	numeric	Does your school have a school library?
V298	q410b_stfroom	Do you have teacher/staff room	discrete	numeric	Does your school have a teacher/staff room?
V299	q410c_storerom	Do you have a store room	discrete	numeric	Does your school have a store room?
V300	q410d_sportsarea	Do you have school sports area	discrete	numeric	Does your school have a sports area?
V301	q410e_pipedwater	Do you have piped water/water tank/bhole	discrete	numeric	Does your school have a piped water/water tank/bore hole/spring?
V302	q410f_schelec	Do you have connected electricity	discrete	numeric	Does your school have electricity [connected]?
V303	q410g_schphone	Do you have school owned telephone	discrete	numeric	Does your school have a school owned telephone?
V304	q410h_schgarden	Do you have school garden	discrete	numeric	Does your school have a schoolgarden?
V305	q410i_twritter	Do you have a functioning & used typewriter	discrete	numeric	Does your school have a typewriter [functional & used]?
V306	q410j_radio	Do you have a functioning & used radio	discrete	numeric	Does your school have a radio [functional & used]?
V307	q410k_computer	Do you have a functioning & used computer	discrete	numeric	Does your school have a computer [functional & used]?
V308	q410l_fence	Do you have a fence/hedge around the school	discrete	numeric	Does your school have a fence/hedge around school borders?
V309	q411_borrowbks	Can pupils borrow books from the school library?	discrete	numeric	Can students borrow books from the school library to take away to their homes?
V310	q412a_tflushboys	Number of flush toilets used by boys	discrete	numeric	How many Flush toilets used by boys does your school have?

ID	Name	Label	Type	Format	Question
V311	q412a_ttsquatboys	Number of squat toilets used by boys	discrete	numeric	How many Squat toilets used by boys does your school have?
V312	q412a_ttothboys	Number of other types of toilets used by boys	discrete	numeric	How many Other types of toilets used by boys does your school have?
V313	q412b_ttflushgirls	Number of flush toilets used by girls	discrete	numeric	How many Flush toilets used by girls does your school have?
V314	q412b_ttsquatgirls	Number of squat toilets used by girls	discrete	numeric	How many Squat toilets used by girls does your school have?
V315	q412b_ttothgirls	Number of other types of toilets used by girls	discrete	numeric	How many Other types of toilets used by girls does your school have?
V316	q412c_ttflushstaff	Number of flush toilets used by staff	discrete	numeric	How many Flush toilets used by staff does your school have?
V317	q412c_ttsquatstaff	Number of squat toilets used by staff	discrete	numeric	How many Squat toilets used by staff does your school have?
V318	q412c_ttothstaff	Number of other types of toilets used by staff	discrete	numeric	How many Other types of toilets used by staff does your school have?
V319	q413a_bldschfac	Do parents contribute to bulding school facilities	discrete	numeric	Do parents and/or the community contribute to the school in building of school facilities such as classrooms, teacher house e.t.c?
V320	q413b_mainschfac	Do parents contribute towards maintaing school facilities	discrete	numeric	Do parents and/or the community contribute to the school in maintainance of school facilities such as classrooms, teacher houses e.t.c?
V321	q413c_conschfun	Do parents contribute to construction/maintaining furniture	discrete	numeric	Do parents and/or the community contribute to the school in construction or maintainance and repair of furniture, equipment, e.T.C?
V322	q413d_purtxtbks	Do parents contribute to the purchase of text books	discrete	numeric	Do parents and/or the community contribute to the school in the purchase of textbooks?
V323	q413e_purstat	Do parents contribute to the purchase of stationary	discrete	numeric	Do parents and/or the community contribute to the school in the purchase of stationary?
V324	q413f_purothsupl	Do parents contribute to purchase of other school supplies	discrete	numeric	Do parents and/or the community contribute to the school in the purchase of other school supplies, materials and or equipments?
V325	q413g_payexamfee	Do parents contribute to payement of exam fee	discrete	numeric	Do parents and/or the community contribute to the school in payment of examination fees?
V326	q413h_paytchsalary	Do parents contribute to paymane of additonal teacher salary	discrete	numeric	Do parents and/or the community contribute to the school in paymentof salaries of additional teachers?
V327	q413i_addtsalary	Do parents contribute to payement of extra teacher salary	discrete	numeric	Do parents and/or the community contribute to the school in payment of an additional amount on top of normal salary of teachers?
V328	q413j_payntchsalary	Do parents contribute to non-teaching staff salaries	discrete	numeric	Do parents and/or the community contribute to the school in payment of the salaries of non-teaching staff?
V329	q413k_addnts salary	Do parents contribute to payement of extra non-techers salary	discrete	numeric	Do parents and/or the community contribute to the school in payment of an additional amount on top of the normal salary of non-teaching staff?

ID	Name	Label	Type	Format	Question
V330	q413l_extracuricul	Do parents contribute to extra-curricular activities	discrete	numeric	Do parents and/or the community contribute to the school in extra-curricular activities including trips?
V331	q413m_aidteach	Do parents assist teachers to teach/supervise pupils themselves	discrete	numeric	Do parents and/or the community contribute to the school in assisting teachers in teaching and/or teach or supervise pupils themselves without pay?
V332	q413n_proschmeals	Do parents contribute to provision of school meals	discrete	numeric	Do parents and/or the community contribute to the school in provision of school meals?
V333	q61_comments	Comments about the interview	discrete	character	RECORDS COMMENTS ABOUT THE INTERVIEW
V334	q62_intrate	Interview rating	discrete	numeric	RATE THE INTERVIEW
V335	q63_result	Result of the interview	discrete	numeric	RESULT OF INTERVIEW
V336	tl	Team leader	discrete	numeric	6.5 FIELD SUPERVISOR/TEAM LEADER'S CODE
V337	distr	District sampled	discrete	numeric	
V338	dec	Data entry clerk	discrete	numeric	6.6 DATA ENTRY CLERK'S CODE
V339	schrnk	School rank in that district: during sampling	discrete	numeric	
V340	publicSCH		discrete	numeric	

LearnerXteristics

Content

Cases 2436

Variable(s) 76

Structure Type:
Keys: ()

Version

Producer

Missing Data

Variables

ID	Name	Label	Type	Format	Question
V341	pupID	Pupil uniq ID	contin	numeric	PUPIL'S ID [TO BE ASSIGNED AT DATA ENTRY]
V343	pup_sex	gender of the child	discrete	numeric	2.1 Are you a boy or a girl?
V344	pup_dob	Date of birth	discrete	character	2.2 What is the date of your birth?
V345	KNECcode_cur	Current KNEC code	contin	numeric	1.6 CURRENT KENYA NATIONAL EXAMINATION INDEX FOR THE SCHOOL
V346	KNECcode_prev	Previos KNEC code	contin	numeric	1.7 PREVIOUS KENYA NATIONAL EXAMINATION INDEX FOR THE SCHOOL
V347	distr	District sampled	discrete	numeric	
V348	prov	School province	discrete	numeric	
V349	sitpos	Pupil sitting position in class	contin	numeric	
V350	pup_doi	Date of interview	discrete	character	1.2 DATE OF INTERVIEW
V351	fw	Field interviewer fw	discrete	numeric	1.3 FIELD INTERVIEWER'S (FI) CODE
V352	q111_pconsent	Was parental consent given?	discrete	numeric	
V353	q112_sconsent	Student consent	discrete	numeric	Would you like your class six students to participate in the study if the parent(s)/guardian(s) give consent?
V354	q23_schys	Number of years in this school?	discrete	numeric	When (year) did you join this school (excluding pre-primary)?
V355	q24_speakeng	Do you speak english outside school?	discrete	numeric	Do you speak English outside school?
V356	q25_preschool	Did you attend pre-school?	discrete	numeric	Did you attend pre-school in the year before you joined grade one?
V357	q26_readoften	How often do you read at home?	discrete	numeric	how often do you read at home?
V358	q31_wherestays	Where name stays after school	discrete	numeric	Where do you stay during the school week?
V359	q32_motheredu	Mother/female guardian education level	discrete	numeric	What is the highest level of education that your mother/female guardian has completed?
V360	q33_fatheredu	Father/male guardian education level	discrete	numeric	What is the highest level of education that your father/male guardian has completed?
V361	q34_siblings	Number of siblings	discrete	numeric	How many sibling do you have studying in this school?
V362	q35_homebooks	Number of books at home during school week?	discrete	numeric	How many books (including story books) are in the place where you stay (home) during the school week?

ID	Name	Label	Type	Format	Question
V363	q36_light	Source of lighting at home?	discrete	numeric	What is the main source of lighting by which you can read in the place where you stay (home) during the school week?
V364	q37a_dnpaper	Do your household have daily newspapers	discrete	numeric	Does the place where you stay (home) have a daily newspaper during the school week?
V365	q37b_magazine	Do your household own: magazine	discrete	numeric	Does the place where you stay (home) have weekly or monthly magazine during the school week?
V366	q37c_radio	Do your household own: radio	discrete	numeric	Does the place where you stay (home) have a radio during the school week?
V367	q37d_tv	Do your household own: tv	discrete	numeric	Does the place where you stay (home) have a TV set during the school week?
V368	q37e_vcd	Do your household own: vcd	discrete	numeric	Does the place where you stay (home) have a video cassette recorder (VCR)/DVD during the school week?
V369	q37f_cassette	Do your household own: cassette	discrete	numeric	Does the place where you stay (home) have a cassette player during the school week?
V370	q37g_telephone	Do your household own: telephone	discrete	numeric	Does the place where you stay (home) have a telephone/mobile phone during the school week?
V371	q37h_fridge	Do your household own: fridge	discrete	numeric	Does the place where you stay (home) have a refrigerator/freezer during the school week?
V372	q37i_car	Do your household own: car	discrete	numeric	Does the place where you stay (home) have a car during the school week?
V373	q37j_motorbike	Do your household own: motorbike	discrete	numeric	Does the place where you stay (home) have a motorcycle during the school week?
V374	q37k_bike	Do your household own: bike	discrete	numeric	Does the place where you stay (home) have a bicycle during the school week?
V375	q37l_pipedwater	Do your household have piped water	discrete	numeric	Does the place where you stay (home) have piped water during the school week?
V376	q37m_elec	Do your household have electricity	discrete	numeric	Does the place where you stay (home) have electricity, generator, solar during the school week?
V377	q37n_table	Do your household have a table to write on	discrete	numeric	Does the place where you stay (home) have a table to write on during the school week?
V378	q37o_toilet	Do your household have a toilet inside the house	discrete	numeric	Does the place where you stay (home) have a toilet in the house during the school week?
V379	q38a_cattle	How many cattle are owned by your household?	discrete	numeric	Approximately how many cattle are owned by the household or place where you stay during the school week?
V380	q38b_sheep	How many sheep are owned by your household?	discrete	numeric	Approximately how many sheep are owned by the household or place where you stay during the school week?
V381	q38c_goats	How many goats are owned by your household?	discrete	numeric	Approximately how many goats are owned by the household or place where you stay during the school week?
V382	q38d_horses	How many horses are owned by your household?	discrete	numeric	Approximately how many horses are owned by the household or place where you stay during the school week?
V383	q38e_donkeys	How many donkeys are owned by your household?	discrete	numeric	Approximately how many donkeys are owned by the household or place where you stay during the school week?
V384	q38f_pigs	How many pigs are owned by your household?	discrete	numeric	Approximately how many pigs are owned by the household or place where you stay during the school week?

ID	Name	Label	Type	Format	Question
V385	q38g_chicken	How many chicken are owned by your household?	discrete	numeric	Approximately how many poultry are owned by the household or place where you stay during the school week?
V386	q38h_camels	How many camels are owned by your household?	discrete	numeric	Approximately how many camels are owned by the household or place where you stay during the school week?
V387	q38i_rabbits	How many othlvstock are owned by your household?	discrete	numeric	Approximately how many other specified livestock are owned by the household or place where you stay during the school week?
V388	q39_floor	Floor covering	discrete	numeric	What is the surface (covering) of the floor of the place where you stay (home) during the school week?
V389	q39_otherfloor	Other main material of the floor	discrete	character	What is the the other specified surface (covering) of the floor of the place where you stay (home) during the school week?
V390	q310_walls	main material of the wall	discrete	numeric	What are the outside walls of the place where you stay(home) during the school week mostly made of?
V391	q311_roof	Main material of the roof	discrete	numeric	What is the roof of the place where you stay(home) during the school week mostly made of?
V392	q41_homeread	Any one read to you when young?	discrete	numeric	Did anyone in your home read to you when you were young?
V393	q42_mthshwk	How often has maths homework?	discrete	numeric	How often do you have mathematics homework?
V394	q43_correctshwk	How often teacher corrects maths homework?	discrete	numeric	How often does your teacher correct your mathematics homework?
V395	q44_usetxtbks	How maths txtbks are used during maths lesson	discrete	numeric	How are Mathematics textbooks used in your classroom during the lessons?
V396	q51_tabsent	how often teachers are absent from lessons	discrete	numeric	Are teachers in your school ever absent from lessons?
V397	q52_lhurtl	how often learners hurt other learners	discrete	numeric	How often do learners hurt other learners in your school?
V398	q53_thurtl	how often teachers hurt learners	discrete	numeric	How often do teachers hurt learners in your school?
V399	q54_ohurtl	how often outsiders hurt learners	discrete	numeric	How often do outsiders hurt learners in your school?
V400	q55_daysabsent	Number of days absent from schoolm last sch month	discrete	numeric	On how many school days were you absent during the last school month?
V401	q56_reasonabsent	Reason absent from school	discrete	numeric	What was the MAIN reason for your absense?
V402	q57_repeatgrade	number of times repeated grade	discrete	numeric	How many times have you repeated a grade since you started school?
V403	q58_g6repeat	repeating grade 6	discrete	numeric	Are you repeating standard six this year, 2009?
V404	q59_libbkshome	takes lib books home	discrete	numeric	Are you allowed to take library books home from school, that is, from the school library and or a class library, book cover or book box?
V405	q510a_tuitmaths	takes maths tuition outside school	discrete	numeric	Do you take extra tuition outside school hours in Mathematics?
V406	q510b_tuitenglish	takes english tuition outside school	discrete	numeric	Do you take extra tuition outside school hours in English?
V407	q510c_tuitscience	takes science tuition outside school	discrete	numeric	Do you take extra tuition outside school hours in Science?
V408	q510d_tuitother	takes other tuition outside school	discrete	numeric	Do you take extra tuition outside school hours in Other subjects?
V409	index_score	Wealth Index Score	contin	numeric	

ID	Name	Label	Type	Format	Question
V410	windex_5_pup	wealth quintiles: Five categories	discrete	numeric	
V411	windex_3_pup	wealth quintiles: Three categories	discrete	numeric	
V413	windex_10_pup	10 quantiles of index_score	discrete	numeric	
V414	comments	Interview comments	discrete	character	6.1 RECORDS COMMENTS ABOUT THE INTERVIEW
V415	intresult	Result of interview	discrete	numeric	6.2 RESULTS OF INTERVIEW
V416	tl	Team leader	discrete	numeric	6.4 FIELD SUPERVISOR/TEAM LEADER'S CODE
V417	dec	Data entry staff	discrete	numeric	6.5 DATA ENTRY CLERK'S CODE
V418	schrnk	School rank in that district: during sampling	discrete	numeric	

LearnerTest_Item_R1_R2

Content

Cases 152960

Variable(s) 10

Structure Type:
Keys: ()

Version

Producer

Missing Data

Variables

ID	Name	Label	Type	Format	Question
V419	pupilno	pupil Number	contin	numeric	Pupil Identifier
V420	qno	Question Number	contin	numeric	Question Number
V421	schcode	School code	contin	numeric	School Code
V422	pupans	Pupil answer	discrete	character	Pupil Naswer
V423	corans	Correct Answer	discrete	character	Correct Answer
V424	ansright	Is pupil answer correct?	discrete	numeric	Score for individual pupil answer - correct or incorrect
V425	sex	Gender of the pupil	discrete	numeric	Gender of the pupil
V426	distr	District sampled	discrete	numeric	District
V427	schrank	School rank in that district: during sampling	discrete	numeric	School rank
V428	round	Round of data collection	discrete	numeric	Round of data collection

OBSchecklist

Content

Cases 211

Variable(s) 36

Structure Type:
Keys: ()

Version

Producer

Missing Data

Variables

ID	Name	Label	Type	Format	Question
V429	tchID	Teacher uniq ID	contin	numeric	Teacher uniq ID
V431	sex	gender of the teacher	discrete	numeric	gender of the teacher
V432	subject	Subject	discrete	numeric	Subject Taught
V433	KNECcode_cur	Current KNEC code	contin	numeric	Current KNEC code
V435	q4_girlspresent	Head count GIRLS PRESENT	contin	numeric	Q4: Head count GIRLS PRESENT
V436	q5_girlsabsent	Number of GIRLS ABSENT	contin	numeric	Q5: Number of GIRLS ABSENT
V437	q6_boyspresent	Head count BOYS PRESENT	contin	numeric	Q6: Head count BOYS PRESENT
V438	q7_boysabsent	Number of BOYS ABSENT	contin	numeric	Q7: Number of BOYS ABSENT
V439	doi	Date of interview	discrete	character	Date of interview
V440	starttime	Lesson start time	discrete	character	Lesson start time
V441	endtime	lesson end time	discrete	character	lesson end time
V442	lesstime	lessonDuration	contin	numeric	lessonDuration
V443	fw	Field interviewer fw	discrete	numeric	Field interviewer fw
V444	q15_workscheme	Scheme of work available	discrete	numeric	Q1.5: OBSERVE AND RECORD AVAILABILITY OF: Scheme of work available
V445	q16_workrecord	Record of work available	discrete	numeric	Q1.6: OBSERVE AND RECORD AVAILABILITY OF:
V446	q17_lessonplan	Lesson plan available	discrete	numeric	Q1.7: OBSERVE AND RECORD AVAILABILITY OF: Lesson plan available
V447	q18_lessonnotes	Lesson notes available	discrete	numeric	Q1.8: OBSERVE AND RECORD AVAILABILITY OF: Lesson notes available
V448	q19_progrecord	Pupil progressive records	discrete	numeric	Q1.9: OBSERVE AND RECORD AVAILABILITY OF: Pupil progressive records
V449	q20_visualteachAID	Visual teaching AIDS	discrete	numeric	Q2.0: WHICH OF THE FOLLOWING ARE AVAILABLE AND THEIR USE IN CLASS: Visual teaching AIDS
V450	q21_visualAIDS	Visual AIDS: like wall charts	discrete	numeric	Q2.1: WHICH OF THE FOLLOWING ARE AVAILABLE AND THEIR USE IN CLASS: Visual AIDS: like wall charts
V451	q22_chalkboard	Chalkboard, duster and chalk	discrete	numeric	Q2.2: WHICH OF THE FOLLOWING ARE AVAILABLE AND THEIR USE IN CLASS: Chalkboard, duster and chalk
V452	q23_exerbook	Exercise books	discrete	numeric	Q2.3: AVAILABILITY OF: Exercise books

ID	Name	Label	Type	Format	Question
V453	q24_recomtxtbks	Recommended textbook(s)	discrete	numeric	Q2.4: AVAILABILITY OF: Recommended textbook(s)
V454	q25_studmaterials	Student made resource in the wall	discrete	numeric	Q2.5: AVAILABILITY OF: Student made resource in the wall
V455	q26_others	Other reading materials	discrete	numeric	Q2.6: AVAILABILITY OF: Other reading materials
V456	q27_light	Adequacy of natural lighting	discrete	numeric	Q2.7: Adequacy of natural lighting
V457	q28_vent	Adequacy of ventilation	discrete	numeric	Q2.8: Adequacy of ventilation
V458	q29_temp	Adequacy: Temperature	discrete	numeric	Q2.9: Adequacy: Temperature
V459	q30_silence	Adequacy: Silence	discrete	numeric	Q3.0: Adequacy: Silence
V460	q31_flrcement	Floor cemented	discrete	numeric	Q3.1: CONDITION OF FLOOR: Floor cemented
V461	q32_seatspace	Seating splace for all pupils	discrete	numeric	Q3.2: Seating splace for all pupils
V462	q33_writesurface	Writing surface for all pupils	discrete	numeric	Q3.3: Writing surface for all pupils
V463	q34_movespace	Space for movement between desks/forms	discrete	numeric	Q3.4: Space for movement between desks/forms
V464	q35_studentmotiv	student level motivation/cheerfull classroom	discrete	numeric	Q3.5: student level motivation/cheerfull classroom
V465	totabs		contin	numeric	
V466	schrank	School rank in that district: during sampling	discrete	numeric	

TeacherTest

Content

Cases 72

Variable(s) 6

Structure Type:
Keys: ()

Version

Producer

Missing Data

Variables

ID	Name	Label	Type	Format	Question
V467	tchID	Teacher uniq ID	contin	numeric	Teacher uniq ID
V469	sex	gender of the Teacher	discrete	numeric	gender of the Teacher
V470	KNECcode_cur	Current school KNEC code	contin	numeric	Current school KNEC code
V472	score	(sum) score	discrete	numeric	Cumulative score in the teacher test
V473	percent_score		contin	numeric	Percent acore
V474	below_ovmscore	Below overall(country) mean score	discrete	numeric	percent score is below overall(country) mean score

Related Materials

Questionnaires

GGL_head_teacher_qnr_20052009

Title GGL_head_teacher_qnr_20052009
Filename GGL_head_teacher_qnr_20052009.pdf

GGL_Learner_test_22052009

Title GGL_Learner_test_22052009
Filename GGL_Learner_test_22052009.pdf

GGL_science_teacher_qnr_21052009

Title GGL_science_teacher_qnr_21052009
Filename GGL_science_teacher_qnr_21052009.pdf

GGL_Teacher_Maths_test_20052009

Title GGL_Teacher_Maths_test_20052009
Filename GGL_Teacher_Maths_test_20052009.pdf

Video_Analysis_rubric 18082009

Title Video_Analysis_rubric 18082009
Filename Video_Analysis_rubric 18082009.pdf

GGL_Observation_checklist_20052009

Title GGL_Observation_checklist_20052009
Filename GGL_Observation_checklist_20052009.pdf

GGL_maths_teacher_qnr_21052009

Title GGL_maths_teacher_qnr_21052009
Filename GGL_maths_teacher_qnr_21052009.pdf

VideoRubric_MthsPrf

Title VideoRubric_MthsPrf
Filename VideoRubric_MthsPrf.pdf

GGL_english_teacher_qnr_21052009

Title GGL_english_teacher_qnr_21052009

Filename GGL_english_teacher_qnr_21052009.pdf

GGL_pupil_questionnaire_20052009

Title GGL_pupil_questionnaire_20052009

Filename GGL_pupil_questionnaire_20052009.pdf

Reports

GoogleReport_13082010

Title GoogleReport_13082010

Filename GoogleReport_13082010.pdf
