Appendix

List of variables included by category and level of analysis

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| **LEVEL** | **CATEGORIES OF FACTORS** | **VARIABLES** |
|  | **Child Physical Factors & Health** | Child's weight compared to others of this age |
|  |  | Child's height compared to others of this age |
|  |  | calculated bmi=weight / squared(height)- Round 3 |
|  |  | weight-for-age z-score- Round 3 |
|  |  | height-for-age z-score- Round 3 |
|  |  | bmi-for-age z-score- Round 3 |
|  |  | calculated bmi=weight / squared(height)- Round 2 |
|  |  | weight-for-age z-score- Round 2 |
|  |  | height-for-age z-score- Round 2 |
|  |  | bmi-for-age z-score- Round 2 |
|  |  | Birth weight (grams) |
| **STUDENT** |  | calculated bmi=weight / squared(clenhei) |
|  |  | weight-for-age z-score- Round 1 |
|  |  | length/height-for-age z-score- Round 1 |
|  |  | bmi-for-age z-score- Round 1 |
|  |  | flag = 1 if (zhfa < -6 | zhfa >6) |
|  |  | flag = 1 if (zbfa < -5 | zbfa >5) |
|  |  | BRTHCARE: Level of care at birth according to dr, nurse, midwife, presence |
|  |  | Was child breastfed? |
|  |  | Child's health compared to others of this age |
|  |  | Does child have any long term health problems? |
|  |  | Number of times child ate in the last 24 hour? |
|  | **Child preschool and school trajectory** | Did YL child attend creche before 3yrs of age |
|  |  | How long child attended preschool |
|  |  | How is child faring at pre-school |
| **STUDENT** |  | Age of child first attended preschool |
|  |  | Days per week attending preschool |
|  |  | At what age did this child start formal school? |
|  |  | Does NAME have any difficulties in getting to school? acc to HH |
| **LEVEL** | **CATEGORIES OF FACTORS** | **VARIABLES** |
|  |  | During the last 12 months has NAME ever missed school for a week or more? acc to HH |
|  |  | What was the highest grade that this child has completed? |
|  |  | Did you have to pay for child to attend? |
|  |  | How many days has the pupil been absent this academic year? |
|  |  | Number of days absent in current school year |
|  |  | Frequency of pupil drop out in last academic year |
|  |  | Type of school child is attending or likely to attend |
|  |  | Has NAME participated in extra classes in the last 6 months? |
|  |  | Is this child currently in full-time education? |
|  |  | Is the Pupil Present or Absent: |
|  | **Child routines and habits** | How many hours does NAME spend asleep in a typical night? |
|  |  | Number of hours NAME spends in a typical day on - school |
|  |  | Number of hours NAME spends in a typical day on - leisure/playing/seeing friends/etc. |
|  |  | Number of hours NAME spends in a typical day on - studying at home |
|  |  |  Hours that child spent caring for others on a typical day according to HH |
| **STUDENT** |  |  Hours that child spent on domestic tasks on a typical day according to HH |
|  |  | Hours that child spent on family farm or business on a typical day acc. to HH |
|  |  |  Hours that child spent on paid activities on a typical day acc. to HH |
|  |  |  Hours that child spent on general leisure on a typical day acc. to HH |
|  |  |  Hours that child spent at school on a typical day acc. to HH |
|  |  |  Hours that child spent sleeping on a typical day acc to HH |
|  |  |  Hours that child spent studying outside school on a typical day acc to HH |
|  | **Cognitive factors** | Academic ability |
|  |  | Reading Item |
|  |  | Writing Item |
|  |  | The child can read at least one example |
|  |  | Commom Item Reading |
| **STUDENT** |  | Commom Item Writing |
|  |  | Commom Item Numeracy |
|  |  | Reading & Writting Duration-minutes |
| **LEVEL** | **CATEGORIES OF FACTORS** | **VARIABLES** |
|  |  | Total words read at 60 seconds |
|  |  | Total correct words in 60 seconds |
|  |  | Total words read at 60 seconds - Section B |
|  |  | Words per minute |
|  |  | Words per minute (paragraph) |
|  |  | EGRA (reading + oral) rasch score - corrected |
|  |  | Math rasch score - corrected |
| **STUDENT** |  | EGRA Global score - Factor |
|  |  | EGRA corrected Global score - Factor |
|  |  | EGRA rasch Global score - Factor |
|  |  | Highest item responded to |
|  |  | Raw score in the CDA test |
|  |  | Rasch score in the CDA test |
|  |  | Rasch score in the PPVT test |
|  |  | Were conditions for PPVT adequate |
|  |  | Were conditions for CDA-Q adequate |
|  | **Non-cognitive factors & Self-regulation** | How do you feel about life, things, health, getting on with people, being safe, future? |
|  |  | Child positive Attitute and Perceptions about trust people, friends standby, being proud of cloth, if study hard |
|  |  | Child negative Attitute and Perceptions about others decide instead of child, having no choice about work |
|  |  | Motivation to succeed at school |
| **STUDENT** |  | Participation in class |
|  |  | How do you think you are doing compared to other children in your class? |
|  |  | Where on the ladder do you feel you (child) personally stand at the moment? |
|  |  | Social Network level, if others look at child as leader, include in games, help other |
|  |  | Has NAME ever been bullied by peers? |
|  | **Community** | Are continuing education classes available for adults in your community? |
|  |  | Level of health facility in the community |
| **COMMUNITY** |  | Level of Health personnel in the community |
|  |  | Urban or Rural site |
|  |  | Region |
| **LEVEL** | **CATEGORIES OF FACTORS** | **VARIABLES** |
|  |  | Urban or Rural |
|  | **HH Background & Education** | Any events that decreased household welfare since pregnancy with child |
|  |  | Number of events |
| **PARENTS** |  | Can the father read & understand letter or newspaper in Telugu? |
|  |  | Can the mother read & understand letter or newspaper in Telugu? |
|  |  | Can the caregiver read & understand letter or newspaper in Telugu? |
|  |  | Father's education level |
|  |  | Mother's education level |
|  |  | Caregiver's education level |
|  |  | Can caregiver read and understand letter or newspaper in any language |
|  |  | Can caregiver read and understand letter or newspaper in key language |
|  |  | Caregiver's fluency in key language |
|  |  | Caregiver's ethnic group or caste |
|  |  | Education of caregiver |
|  |  | Education of household head |
|  |  | Education of caregiver's partner |
|  |  | Highest grade caregiver completed in school |
|  |  | Level of support at home |
|  | **Parenting & Caregiver** | How people in this area treat you? |
|  |  | Do you know the names of NAME's friends? |
|  |  | Do you know what NAME does after school/work? |
|  |  | Do you know the parents of NAME's friends? |
|  |  | Do you know NAME's teacher? |
|  |  | Is Mum or Dad primary caregiver? |
|  |  | How often does the father see the YL child? |
|  |  | How often does the mother see the YL child? |
| **PARENTS** |  | How often does the caregiver see the YL child? |
|  |  | Main people caring for YL child before 3yrs of age |
|  |  | Main people caring for YL child before 3yrs of age |
|  |  | Caregiver self-perception + satisfaction level with gov., neighbor, ... |
|  |  | Caregiver positive self-concept, |
|  |  | Caregiver negative self-concept |
| **LEVEL** | **CATEGORIES OF FACTORS** | **VARIABLES** |
|  |  | Frequency of seeing biological mother |
|  |  | Frequency of seeing biological father |
|  | **HH Socio-Economic status** | Compared to other families here how many things does your family have? |
|  |  | Has the household owned any livestock in the last 12 months? |
|  |  | Any income collected from plot in last 12 months |
|  |  | In last 12 months has household given money or goods to support people outside the household |
|  |  | Would household be able to raise 230,000 VND in one week |
|  |  | Total Value of Home assets of the HH |
|  |  | How many Animal owned in total |
|  |  | sanitation quality |
|  |  | drinking water quality |
|  |  | Is household on list of poor households |
| **PARENTS** |  | Main source of drinking water |
|  |  | Type of toilet facility |
|  |  | Has hh had any food shortages in last 12 months |
|  |  | Compared with 3 yrs ago is your household economy better, same or worse |
|  |  | Main source of drinking water |
|  |  | Type of toilet facility |
|  |  | For your own use how many study material you have, VN Math e-textbook, ruler, bag, calculator |
|  |  | Has NAME been exempted from tuition by the government? |
|  |  | Has HH received money from retirement, SS, gov. organization, etc. |
|  |  |  Social support level received in last year |
|  | **Parental and Child General Background** | Mother tongue grouped |
|  |  | Father's first language |
|  |  | Mother's first language |
| **PARENTS** |  | Caregiver's first language |
|  |  | Father's ethnic group |
|  |  | Mother's ethnic group |
|  |  | Child's ethnic group |
|  |  | Child's first language |
| **LEVEL** | **CATEGORIES OF FACTORS** | **VARIABLES** |
|  | **Parental Expectations** | When NAME is about 20 years old what job do you think he/she will be doing? |
| **PARENTS** |  | What level of formal education would you like NAME to complete? |
|  |  | What level of education would you like child to complete |
|  |  | What job would you most like child to do in the future |
|  | **Principal Information & School Management** | How often did you face the challenge of teacher attendance in last academic year |
|  |  | Number of years principal has worked in schools |
| **SCHOOL** |  | Number of years as principal of primary schools |
|  |  | Highest level of general education completed by principal |
|  |  | Highest level of teacher training qualification received by principal |
|  |  | Number of days school closed for unforeseen circumstances in last academic year |
|  | **School Information** | In your classroom are there too many pupils for the space available? |
|  |  | Do you have enough desks & chairs for all pupils in your class? |
|  |  | Does classroom need major repairs? |
|  |  | Does each grade 5 class have a separate classroom? |
| **SCHOOL** |  | level problem of student behavior, poor assistance, late, discipline, lack of material |
|  |  | Do pupils in your class attend full-day schooling? |
|  |  | Does school offer full-day schooling to any pupils in Grade 5? |
|  |  | Does school offer additional classes outside normal day to any students? |
|  |  | Is this a single-sex school |
|  |  | Are additional classes taught by same teachers who teach during the normal day? |
|  | **Teacher Background, Qualification & Attitudes** | Teacher Attitude Positive |
|  |  | Teacher Attitude Negative |
|  |  | Employed on temporary or permanent basis |
|  |  | Highest level of general education completed |
|  |  | Highest level teacher training qualification received |
|  |  | Ever been awarded title of excellent teacher? |
|  |  | Do you do extra work to supplement your income? |
| **TEACHER** |  | Do you do private tuition to supplement your income? |
|  |  | Do you always teach Maths to your Grade 5 class? |
|  |  | By the end of this school yr what is the total number of years you will have bee |
| **LEVEL** | **CATEGORIES OF FACTORS** | **VARIABLES** |
|  |  | By the end of the school yr how many years have you been a Grade 5 teacher |
|  |  | During last academic year how often was your work as a teacher in this school ev |
|  |  | Number of days of professional/in-service training in the last academic year |
|  | **Teaching VN & Math** | Number of Maths homework tasks set each week |
|  |  | How often do pupils in this class use calculators in Maths lessons? |
|  |  | Do you always teach Vietnamese to your Grade 5 class? |
| **TEACHER** |  | Difficulty level of Grade 5 Vietnamese textbooks |
|  |  | Did you specialize in Vietnamese in post-secondary education? |
|  |  | Difficulty level of Grade 5 Maths textbooks |
|  |  | Did you specialize in Maths in your post-secondary education? |
|  |  | Number of minutes class studies Vietnamese each week |
|  |  | Number of Vietnamese homework tasks set each week |
|  |  | Number of minutes class studies Maths each week |