Report on May 14, 2013

* Family Support:   
   We will use the following variable  
  “Parents science push” (PSCPH7, PSCPH9, PSCPH10, PSCPH11, PSCPH12)

I have asked the LSAY people which variables are included to form this composite variable, and was told that they will respond later this week (by May 10)

* Extracurricular Activities:

We will create a set of new variables (G7ExC, G8ExC, G9ExC, G10ExC, G11ExC, G12ExC) which is a sum of the following variables,

“In this school year computer club” (BB10M, DB1M, FB1M, HA1M, JA1M, LA1M)

“In this school year science club” (BB10K, DB1K, FB1K, HA1K, JA1K, LA1K)

“In this school year I visited science museum” (BB11J, DB1FF, FB1FF, HA1FF, JA1EE, LA1FF)

“In this school year I visited zoo” (BB11L, DB1HH, FB1HH, HA1HH, JA1FF, LA1GG)

“Last summer I visited science museum” (AB15J, CB1K, EB1K, GA1K, IA1K, KA1K)

“Last summer I visited zoo” (AB15L, CB1M, EB1M, GA1M, IA1M, KA1M)

“In this school year I entered science fair” (BB11E, DB1AA, FB1AA, HA1AA, JA1AA, LA1AA)

* Academic Self-concept:

We will create a set of new variables (G7ASCComp, G8ASCComp, G9ASCComp, G10ASCComp, G11ASCComp, G12ASCComp) which is a composite of the following variables,

“I like working on tough problems” (reverse coded) (AB37M, CB24N, EB25N, GA29N, IA34N, KA41N)

“I like to keep struggling with problems” (reverse coded) (AB37O, CB24P, EB25P, GA29P, IA34P, KA41P)

“I give up soon” (AB38B, CB26B, EB27B, GA31B, IA36B, KA43B)

“I try harder if I get bad grades” (reverse coded) (AB38H, CB26H, EB27H, GA31H, IA36H, KA43H)

“I do my best in school” (reverse coded) (AB38F, CB26F, EB27F, GA31F, IA36F, KA43F)

* Science Self-concept:  
  We will create a set of new variables (G7SSCComp, G8SSCComp, G9SSCComp, G10SSCComp, G11SSCComp, G12SSCComp) which is a composite of the following variables,

“I enjoy science” (reverse coded) (AB39M, CB29A, EB30A, GA33A, IA38A, KA47A)

“I am good at science” (reverse coded) (AB39N, CB29B, EB30B, GA33B, IA38B, KA47B)

“I usually understand science” (reverse coded) (AB39O, CB29C, EB30C, GA33C, IA38C, KA47C)

“Science makes me nervous” (AB39Q, CB29E, EB30E, GA33E, IA38E, KA47E)

“Science helps logical thinking” (reverse coded) (AB39U, CB29I, EB30I, GA33I, IA38I, KA47I)

“Science is useful in everyday problems” (reverse coded) (AB39T, CB29H, EB30H, GA33H, IA38H, KA47H)

“I need science for a good job” (reverse coded) (AB39W, CB29K, EB30K, GA33K, IA38K, KA47K)

“I will use science often as an adult” (reverse coded) (AB39X, CB29L, EB30L, GA33L, IA38L, KA47L)

* School Science Experience:

We will create a set of new “teacher science push” variables (TSCPH7, TSCPH8, TSCPH9, TSCPH10, TSCPH11, TSCPH12) which is a composite of the following variables,

“ Current science teacher expects best from me

* Peer Support:   
   We will use the following variable  
  “Peer science push” (KSCPH7, KSCPH8, KSCPH9, KSCPH10, KSCPH11, KSCPH12)
* Gender:

Gender variable (GENDER1) will be recoded, 1=”Female” and 0=”Male”

* Ethnicity:

Ethnicity variable (RACETH1) will be recoded, 1=”Minority” and 0=”Non-minority”

* Mother’s and Father’s education:

Mother’s education variable (MOTHED1) and Father’s education variable (FATHED1) will be recoded, 1=”went to college or above” and 0=”education below college”.

* Mother’s and Father’s occupation:

Mother’s occupation variable (MOTHOCC1) and Father’s education variable (FATHOCC1) will be recoded, 1=”STEM area” and 0=”Non-STEM area”.

* Biology / Chemistry / Physics / Math / Numbers and Formulas are need for career:

We will create new variables (BIO, CHEM, PSHY, MATH, NUMFOR) which indicate being checked for all time points.

* STEM occupation:

We will create new variables (STEMMJOB, STEMMJOB1) in which the original variable (RSTEMMA) will be recoded, 1=”STEM or STEM support”, 0=”Non-STEM”.

* Summary science scores

We will add variables of summary science achievement test scores for each time point (ASCIIRT, CSCIIRT, ESCIIRT, GSCIIRT, ISCIIRT, KSCIIRT)