

Juntos Project Initial Report

Educators' Baseline Assessment
Cleaning and Recommendations

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Juntos Project Description

Study and intervention details

The *Juntos* Project was a three-year study led by the University of Oregon's Center for Equity Promotion [CEQP](#). The project developed a culturally specific family–school partnership intervention, *Conexiones: Families and Schools United for Equity* (hereafter referred to as *Conexiones*), designed to enhance Latino parents' and educators' capacities to effectively support Latino student success.

The *Conexiones* curricula was built on Latino cultural assets, addressed common challenges confronting immigrant students and families in terms of school success, and utilized effective strategies for increasing educators' awareness of Latino cultures and the barriers that exist for Latino immigrant students and families in schools. It also focused on building effective family-school communication and partnerships with the aim of improving Latino students' academic success.

The six participating schools belonged to three different school districts in the state of Oregon and were randomly assigned to either a control group or a intervention group that received the *Conexiones* intervention program. Study participants completed assessments at three different time points (baseline, immediately post-intervention, and 12-month post-intervention). The complete dataset in the project is made of three waves of data with separate assessments for each participant type (parents, students, and educators).



Report details

This report focuses only on the educators' baseline assessment and is intended to describe the data cleaning process with the aim of guiding CEQP's researchers and data analysts in the procedures performed to the dataset. A secondary aim is to help CEQP staff with data management responsibilities to replicate these procedures in subsequent waves of data and future projects.

The report will also include a brief description of the sociodemographic characteristics of the study participants, the scale creation process, the average scores of participants' responses in regards to major study constructs, and recommendations for more advanced statistical analyses that link the different types of participants in the study.

In the appendix section, data analysts interested in using this dataset will find a codebook with all the items, variable names, and response options.



Data Cleaning procedures

The following section describes the data cleaning procedures I performed in the baseline assessment of the educators' dataset.

I performed data cleaning procedures using the [R](#) and [R Studio](#) softwares, but had in mind that end users of the cleaned datasets will likely be SPSS users, thus, I exported the cleaned dataset to a [.sav](#) file.

The dataset

The raw dataset had 43 observations and 202 variables of which 17 were metadata variables created by Qualtrics, the software used to develop the assessment surveys. Of the 43 observations, one case, participant with `id` 153 had incomplete data. I called the raw dataset downloaded directly from Qualtrics as `w1_raw_elt` which stands for wave one of the raw data from the equity leadership team (i.e. elt).

0.0.1 Initial cleaning

In the following code, I created a new dataframe `elt_w1_clean` where I selected out all but one of the metadata variables, `response_id`. This variable is an unique identifier assigned by Qualtrics that resulted handy in dealing with duplicated ids.

Other simple data cleaning procedures are noted in the comments marked with a # sign using the [clean_names](#), [select](#), [rename](#), and [arrange](#) functions.

```
elt_w1_clean <- w1_raw_elt %>%
  clean_names() %>% # function that formats variables' names
  select(-1:-8, -10:-17, -202) %>% # selecting out columns with metadata
  rename(c("id" = "pj")) %>% # renaming id variable.
  arrange(id) # ordering participants ids in descending order
```

0.0.2 Dealing with duplicated ids

When evaluating if the dataframe had duplicated ids, I found that `id 257` was duplicated and there was no `id 254`.

In the table below, I am just showing a few variables and participants from `school 2`.

<code>response_id</code>	<code>id</code>	<code>school</code>	<code>q1</code>	<code>q2</code>	<code>q3</code>
R_1NsKbbg0xSNm9DI	251	2	3	3	2
R_Xvok02kOfilkV3	252	2	3	3	4
R_294kWxlg2imaph1	253	2	4	3	3
R_3NEywl5hBzdP9Kt	255	2	3	2	3
R_3McjQ3QdB3iSnbT	256	2	4	3	4
R_6EELe7Uuwi9W7zX	257	2	2	2	3
R_3IRUos8weYHpWB1	257	2	4	3	3

After checking with CEQP's research assistant, I corroborated that one of the duplicated cases of `id 257` in fact was `id 254`. I fixed this mistake with the code below using the `response_id` variable and the [mutate](#) and [case_when](#) functions.

The combination of these two functions is creating a new variable (that I am naming the same as it was, `id`) to follow the condition that if the variable `response_id` has the "R_6EELe7Uuwi9W7zX" value, the `id` value should be recoded as "254".

```
elt_w1_clean <- elt_w1_clean %>%
  mutate(id = case_when(response_id == "R_6EELe7Uuwi9W7zX" ~ "254",
                        TRUE ~ as.character(id))) %>%
  arrange(id)
```

0.0.3 Dealing with survey coding errors

The id protocol followed in CEQP projects is very straightforward. They use three digits for each individual participant id and use the first of these three digits to indicate the school id. In this system, ids in the 100's would belong to school 1, ids in the 200's to school 2, and so on.

By visual inspection I identified that the first digit of the individual ids in the `id` variable did not correspond to the ids in the school id variable `school` for schools 3, 4, 5, and 6. In the table below, I selected four variables and only the first row of data of each of the six schools to illustrate this point.

id	school	q1	q2	q3
150	1	4	3	3
250	2	4	4	3
350	4	4	3	3
450	3	3	3	3
550	6	3	3	3
650	5	4	3	3

As can be seen in the table above, ids in the 300's are coded to belong to school 4 and ids in the 400's are coded to belong to school 3. I am calling this flip-flopped school ids. Schools 5 and 6 were also flip-flopped.

At first, I thought that this could be due to an error in the data exporting process and it seemed like an easy enough fix to make. I thought I just needed to recode the names of the levels of the `school` variable. Later I found that this fix did not solve the issue. It took me a couple of months to identify that the error was coded in the Qualtrics survey.

The images below are screenshots of the same raw data SPSS file downloaded directly from Qualtrics. In figure 1, it can be seen that when the *value labels* button is “on” (i.e. showing value labels and not values), it appears as if there was no flip-flop because the names of the schools coincided with the numbers that were assigned to them. Indeed, school “K” was school 3 and school “A” was school 4 and its participants were identified with ids in the 300’s and school “A” was school 4 and its participants were identified with ids in the 400’s, and so on.

With value labels on

	PJ_	School	Participant_role_5_T	Participant_role_6_T	Q1	Q2	Q3	Q4	Q5
1	150	C	Admin... -99	-99	Strong...	Agree	Agree	Strong...	Strong...
2	151	C	Other ... Registrar	-99	Strong...	Agree	Agree	Strong...	Agree
3	152	C	Other ... -99	Special Education Te...	Strong...	Agree	Agree	Agree	Strong...
4	153	C	Other ... Educational Assistant	-99	Strong...	Agree	Agree	Agree	Agree
5	154	C	Aduca... -99	-99	Agree	Strong...	Agree	Strong...	Agree
6	155	C	Teacher -99	-99	Strong...	Agree	Agree	Strong...	Strong...
7	250	P	Admin... -99	-99	Strong...	Strong...	Agree	Strong...	Agree
8	251	P	Teacher -99	-99	Agree	Agree	Disagr...	Disagr...	Disagr...
9	252	P	Teacher -99	-99	Agree	Agree	Strong...	No Re...	Agree
10	253	P	Teacher -99	-99	Strong...	Agree	Agree	Strong...	Agree
11	255	P	Other ... Educational Assistant	-99	Agree	Disagr...	Agree	Strong...	Agree
12	256	P	Couns... -99	-99	Strong...	Agree	Strong...	Strong...	Agree
13	257	P	Aduca... -99	-99	Disagr...	Disagr...	Agree	Agree	Agree
14	257	P	Other ... Media Coordinator	-99	Strong...	Agree	Agree	Agree	Agree
15	350	K	Admin... -99	-99	Strong...	Agree	Agree	Agree	Agree
16	351	K	Aduca... -99	-99	Agree	Disagr...	Disagr...	Agree	No Re...
17	352	K	Teacher -99	-99	Agree	Strong...	Disagr...	Disagr...	Disagr...
18	353	K	Teacher -99	-99	Strong...	Strong...	Agree	Agree	Agree
19	354	K	Teacher -99	-99	Strong...	Disagr...	Agree	Strong...	Agree
20	355	K	Teacher -99	-99	Strong...	Agree	Agree	Agree	Agree
21	450	A	Admin... -99	-99	Agree	Agree	Agree	Agree	Agree
22	451	A	Admin... -99	-99	Strong...	Agree	Strong...	Disagr...	Disagr...
23	452	A	Other ... Registrar	-99	Agree	No Re...	Disagr...	No Re...	No Re...
24	453	A	Teacher -99	-99	Agree	Agree	Agree	Agree	Agree
25	454	A	Teacher -99	-99	Strong...	Agree	Agree	Agree	Agree
26	455	A	Teacher -99	-99	Strong...	Strong...	Agree	Agree	Agree
27	456	A	Couns... -99	-99	Strong...	Agree	Agree	Agree	Disagr...
28	457	A	Other ... Attendance Clerk	-99	Agree	Agree	Agree	Agree	Agree

Figure 1: Value labels button on.

This changed when the *value labels* button was “off”. In the image below, the flip-flopped school ids is evident again:

	School	Participant_role_5_T	Participant_role_6_T	Q1	Q2	Q3	Q4	Q5
1	150	1 -99	-99	4	3	3	4	4
2	151	1 5 Registrar	-99	4	3	3	4	3
3	152	1 6 -99	Special Education Te...	4	3	3	3	4
4	153	1 5 Educational Assistant	-99	4	3	3	3	3
5	154	1 4 -99	-99	3	4	3	4	3
6	155	1 2 -99	-99	4	3	3	4	4
7	250	2 1 -99	-99	4	4	3	4	3
8	251	2 2 -99	-99	3	3	2	2	2
9	252	2 2 -99	-99	3	3	4	99	3
10	253	2 2 -99	-99	4	3	3	4	3
11	255	2 5 Educational Assistant	-99	3	2	3	4	3
12	256	2 3 -99	-99	4	3	4	4	3
13	257	2 4 -99	-99	2	2	3	3	3
14	257	2 5 Media Coordinator	-99	4	3	3	3	3
15	350	4 1 -99	-99	4	3	3	3	3
16	351	4 4 -99	-99	3	2	2	3	99
17	352	4 2 -99	-99	3	1	2	2	2
18	353	4 2 -99	-99	4	4	3	3	3
19	354	4 2 -99	-99	4	2	3	4	3
20	355	4 2 -99	-99	4	3	3	3	3
21	450	3 1 -99	-99	3	3	3	3	3
22	451	3 1 -99	-99	4	3	3	4	2
23	452	3 5 Registrar	-99	3	99	2	99	99
24	453	3 2 -99	-99	3	3	3	3	3
25	454	3 2 -99	-99	4	3	3	3	3
26	455	3 2 -99	-99	4	4	3	3	3
27	456	3 3 -99	-99	4	3	3	3	2
28	457	3 5 Attendance Clerk	-99	3	3	3	3	3

Figure 2: Value labels button off

This survey coding error meant that the `school` variable’s value labels properly corresponded to the participants’ ids, but the variable’s values did not. Instead of recoding the values, I decided to create a new variable called `school_id` and delete the flawed original variable `school`.

In the code below, I created a new dataframe `elt_w1_clean_2` where I used the first digit of the individual participant id variable `id` as the reference for the new `school_id` variable, following CEQP’S id protocol. I also created a new variable called `condition` to indicate which schools were randomly assigned to the control group (coded as 1) or to the intervention group (coded as 2).

I coded schools identified with a `school_id` odd number (1, 3, and 5) as the control schools and the schools identified with an even number (2, 4, and 6) as the intervention schools, as directed by CEQP’s research assistant. Finally, I also created a `wave` variable to indicate the wave of the data. Note that I am creating all of these new variables with the [mutate](#) function.

```
elt_w1_clean_2 <- elt_w1_clean %>%
  mutate(school_id = str_sub(id, 1, 1), # new school id variable
    condition = case_when(
      school_id == "1" | school_id == "3" | school_id == "5" ~ "1",
      school_id == "2" | school_id == "4" | school_id == "6" ~ "2")) %>% # new
    condition variable
  select(school_id, condition, everything())
  add_column(wave = 1, .before = 9) %>% # new wave variable
  select(- school) # selecting out (i.e. deleting) school variable
```

The `condition` and `school_id` variables I created in the previous code were string variables. In the code below I created a new dataframe `elt_w1_clean_3` where I coerced these variables to be numeric so they can be used in quantitative analyses using the `as.numeric` function. I also added value labels with the `set_vall` function so that SPSS users can use the *value labels* button.

In the code below I also fixed a response option coding error I identified in the variable `q68`. Throughout most of the survey, response options were coded as “Strongly Disagree” = 1, “Disagree” = 2, “Agree” = 3, “Strongly Agree” = 4, “No response” = 99; however, in variable `q68` the response option “No response” was coded as “5”.

I fixed this using the `ifelse` function, specifying that if this variable had a response of 5, it should be changed to 99. Finally, I set the variable and value labels with the `set_varl` and `set_vall` functions, respectively, because sometimes procedures performed with R strips out these labels.

```
elt_w1_clean_3 <- elt_w1_clean_2 %>%
  mutate(condition = as.numeric(condition),
    condition = set_vall(condition, c("control" = 1, "intervention" = 2)),
    school_id = as.numeric(school_id),
    school_id = set_vall(school_id, c("cascade" = 1, "prairie_mountain" = 2, "kelly"
    = 3, "ata" = 4, "briggs" = 5, "agnes_stewart" = 6)),
    q68 = ifelse(q68 == 5, 99, q68),
    q68 = set_varl(q68, "When I communicate with Latino families, I keep in mind
    that many Latino parents may not understand how to navigate the educational
    system in this
    country."),
    q68 = set_vall(q68, c("Strongly Disagree" = 1, "Disagree" = 2, "Agree" = 3,
    "Strongly Agree" = 4, "No response" = 99)))
```

0.0.4 Dealing with split out responses from multiple choice, unique answer variables

In this dataset, several multiple choice variables that were originally meant to have a single answer, were spread out as if they allowed to have multiple answers. I believe this was because in the Qualtrics survey development process, the option for *Multiple answer* was selected, instead of *Single answer*.

The screenshot shows the Qualtrics survey development interface. At the top, there are tabs for Survey, Actions, Distributions, Data & Analysis, and Reports. Below the tabs are buttons for Preview, Publish, and Search. The main area is titled 'Untitled Project' and contains a 'Default Question Block'. Inside the block, question Q2 asks 'How comfortable are you speaking Spanish?' with five options: Extremely comfortable, Somewhat comfortable, Neither comfortable nor uncomfortable, Somewhat uncomfortable, and Extremely uncomfortable. To the right of the question, under 'Change Question Type', the 'Multiple Choice' option is selected. In the 'Answers' section, the 'Multiple Answer' radio button is checked, which is highlighted with a red oval. Other answer types listed include Single Answer, Dropdown List, Select Box, and Multi Select Box. Below the question block are buttons for Import Questions From..., Create a New Question, and Add Block. At the bottom, there are buttons for End of Survey and Survey Termination Options... The validation options section is also visible.

Figure 3: Qualtrics survey development

When this happens, participants could select mutually exclusive options, like this:

The screenshot shows the Qualtrics survey preview. The header features the University of Oregon logo. The question 'How comfortable are you speaking Spanish?' has five options: Extremely comfortable, Somewhat comfortable, Neither comfortable nor uncomfortable, Somewhat uncomfortable, and Extremely uncomfortable. The first and last options are highlighted with dark green bars at the top and bottom, while the middle three are white boxes. At the bottom right of the preview window is a dark green 'Next' button.

Figure 4: Qualtrics survey preview

When *Multiple answer* is selected, Qualtrics splits these multi-value fields into columns, assigning a value of 1 if a response option is chosen and a value of 0 if a response option is not chosen. In the following code, I collapsed the Spanish variable that was split out so it could be easily used in analyses. To avoid overwhelming the reader, I am omitting the code I used to collapse other language variables. I used the same procedure in all of these variables.

In the code below, the function `pivot_longer` makes the dataframe “long” as it increases the number of rows and decreases the number of columns. This function gathers variables’ names under the new variable `item_2` and gathers the values of these variables under the new variable `spanish_comfort`. Then, I chose only the options that had a value of 1, indicating when a participant chose that response option.

Finally, I recoded the response options to follow this scheme: “Not at all comfortable” = 1, “Somewhat comfortable” = 2, “Comfortable” = 3, “Very comfortable” = 4, “No response” = 99.

```
# collapsing spanish variables
spa <- elt_w1_clean_3 %>%
  select(-id, -starts_with("q132_2")) %>% # creating a dataframe with only the id and
  Spanish variables
  pivot_longer(
    cols = starts_with("q132_2"),
    names_to = "item_2",
    values_to = "spanish_comfort",
    values_drop_na = TRUE) %>%
  filter(spanish_comfort == 1) %>%
  mutate(spanish_comfort = case_when(item_2 == "q132_2_1" ~ "1",
                                      item_2 == "q132_2_2" ~ "2",
                                      item_2 == "q132_2_3" ~ "3",
                                      item_2 == "q132_2_4" ~ "4",
                                      item_2 == "q132_2_99" ~ "99",
                                      TRUE ~ as.character(spanish_comfort))) %>%
  select(-item_2) # selecting out variable with repetitive information
```

When all the language variables were collapsed I checked if there were duplicated cases and I found that participant identified with `id` 454 chose response option “1” and response option “2”.

id	spanish_comfort
451	3

452	3
453	2
454	1
454	2
455	2
456	1
457	2
458	2

Because I can only assume that this was an entry error given that the choices are, in theory, mutually exclusive: “Not at all comfortable” = 1, vs. “Somewhat comfortable” = 2, I used the [distinct](#) function to retain only unique values.

For this case, option 1 = “Not at all comfortable” was retained as the function “assumes” the second option is the duplicative.

```
spa_2 <- spa %>%
  distinct(id, .keep_all = TRUE)
```

id	spanish_comfort
451	3
452	3
453	2
454	1

456	1
457	2
458	2

The last step in this process was joining the dataframe I created with all the language variables I collapsed (`all_lang_vars`) and the `elt_w1_clean_3` dataframe that had all of the variables. I used the [left_join](#) function to do this.

In this new dataframe `elt_w1_clean_4` I also coerced the language variables to become numeric so they could be used in quantitative analyses and added the value labels so that SPSS users can use the *value labels* button. I used the code below to do this.

```
elt_w1_clean_4 <- left_join(elt_w1_clean_3, all_lang_vars) %>%
  select(-starts_with("q132_")) # deleting all previous language variables that were
  included in new vlanguage ariables

elt_w1_clean_4 <- elt_w1_clean_4 %>%
  mutate(english_comfort = as.numeric(english_comfort),
    english_comfort = set_vall(english_comfort, c("not at all comfortable" = 1,
    "somewhat comfortable" = 2, "comfortable" = 3, "very comfortable" = 4, "no
    response" = 99)),
    spanish_comfort = as.numeric(spanish_comfort),
    spanish_comfort = set_vall(spanish_comfort, c("not at all comfortable" = 1,
    "somewhat comfortable" = 2, "comfortable" = 3, "very comfortable" = 4, "no
    response" = 99)),
    other1_lang_comfort = as.numeric(other1_lang_comfort),
    other1_lang_comfort = set_vall(other1_lang_comfort, c("not at all
    comfortable" = 1, "somewhat comfortable" = 2, "comfortable" = 3, "very
    comfortable" = 4, "no response" = 99)),
    other2_lang_comfort = as.numeric(other2_lang_comfort),
    other2_lang_comfort = set_vall(other2_lang_comfort, c("not at all
    comfortable" = 1, "somewhat comfortable" = 2, "comfortable" = 3, "very
    comfortable" = 4, "no response" = 99)),
  )
```

As shown, the following variables were the result of the collapsing process described above: `english_comfort`, `spanish_comfort`, `other1_lang_comfort`, and `other2_lang_comfort`.

0.0.5 Renaming demographic variables

In the code below, I created a new dataframe `elt_w1_clean_5` where I used the `rename` function to rename some of the demographic variables that I used to describe participants's characteristics in the next section of this report. This function uses a “new name” = “old name” pattern. Very straightforward!

At the end I selected out a few variables that did not have meaningful information. For instance, variable `q127` was a response/no response question that only indicated if participants chose to answer it. The meaningful information was contained in variable `q127_1_text` that was renamed as `age`, which I also coerced to become a numeric variable.

```
elt_w1_clean_5 <- elt_w1_clean_4 %>%  
  rename(c("age" = "q127_1_text"),  
         c("birth_country" = "q128"),  
         c("another_birth_country_text" = "q128_2_text"),  
         c("age_first_moved_us" = "q129_1_text"),  
         c("white" = "q130_1"),  
         c("hispanic_latino_spanish" = "q130_2"),  
         c("black_african_american" = "q130_3"),  
         c("asian" = "q130_4"),  
         c("american_indian_alaska_native" = "q130_5"),  
         c("indigenous_americas" = "q130_6"),  
         c("middle_eastern_north_african" = "q130_7"),  
         c("native_hawaiian_pacific_islander" = "q130_8"),  
         c("race_ethnicity_other" = "q130_9"),  
         c("race_ethnicity_no_response" = "q130_99"),  
         c("indigenous_americas_text" = "q130_6_text"),  
         c("race_ethnicity_other_text" = "q130_9_text"),  
         c("gender_id" = "q131"),  
         c("years_in_position" = "q133"),  
         c("years_in_school" = "q134"),  
         c("equity_leadership" = "q135_1"),  
         c("cultural_responsiveness" = "q135_2"),  
         c("restorative_practices" = "q135_3"),  
         c("diversity" = "q135_4"),  
         c("ell" = "q135_5"),  
         c("cont_ed_other" = "q135_6"),  
         c("cont_ed_na" = "q135_88"),  
         c("cont_ed_no_response" = "q135_99"),  
         c("cont_ed_other_text" = "q135_6_text")) %>%
```

```
mutate(age = as.numeric(age)) %>% # making variable numeric for QUAN analyses
select(-q127, -q129, -q131_3_text) # selecting out because they did not have
meaningful info
```

Participant descriptives

In the following section, I used descriptive statistics to summarize participants' characteristics. In this analysis, I treated responses such as "99 = not applicable" or "88 = no response" as missing values. Other category of missing values were responses coded by Qualtrics as "-99 = seen but unanswered", when participants were not forced to respond.

In the code below I created a new dataframe called `elt_w1_clean_6` where I applied a function I created `recode_missing_df` (code of the function not shown) to recode the 88, 99, and -99 values as `NA`, the way R codes missing values.

Educator's characteristics

Educators in this first wave of data ($n = 43$) had a mean age of 42.89 years, with an age range between 24 and 62 years of age (see figure 5). The majority of educators were identified as female (74%).

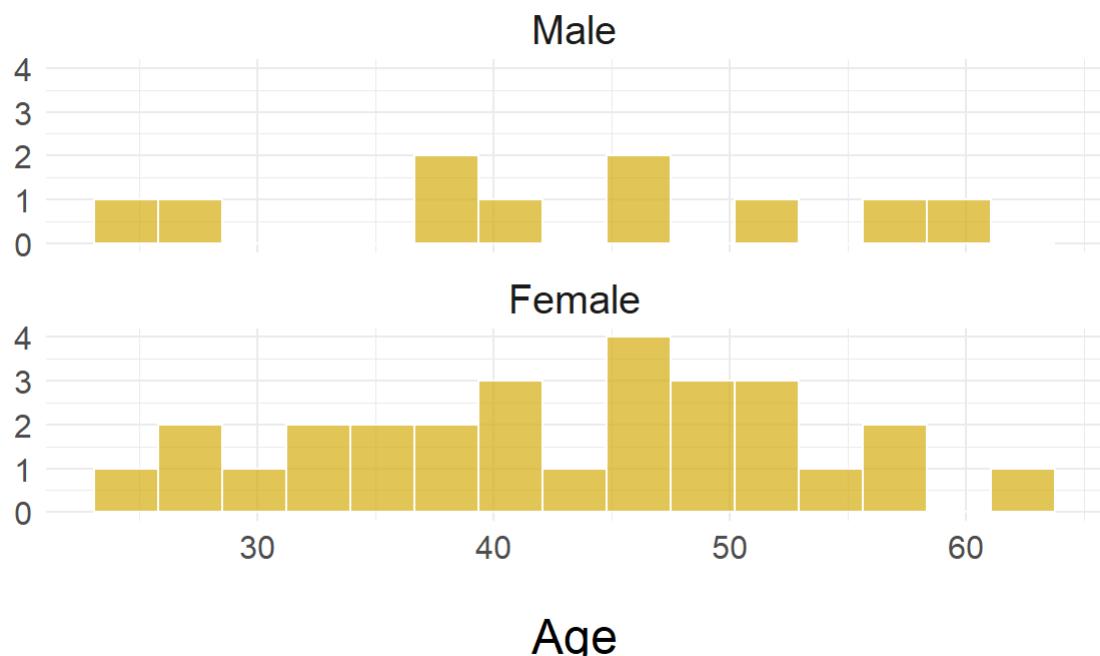


Figure 5: Educator's Age by gender

A little less than half of the educators were teachers (49%), followed by administrators (16%) and other classified staff (16%). The remaining of the sample (19%) was comprised of educational assistants, counselors, and other certified staff. A little more than half of the educators had been in their current career position, regardless of school site, for over 10 years. About 12% of the educators had been in their current career position for less than a year.

All but four of the educators were born in the United States (U.S.). These four educators traced back their roots to Mexico or El Salvador and report coming for the first time to the U.S. when they were between 11 and 24 years of age. The entirety of the educators in the sample felt either *very comfortable* or *comfortable* speaking in English, but only about 20% felt the same way speaking in Spanish.

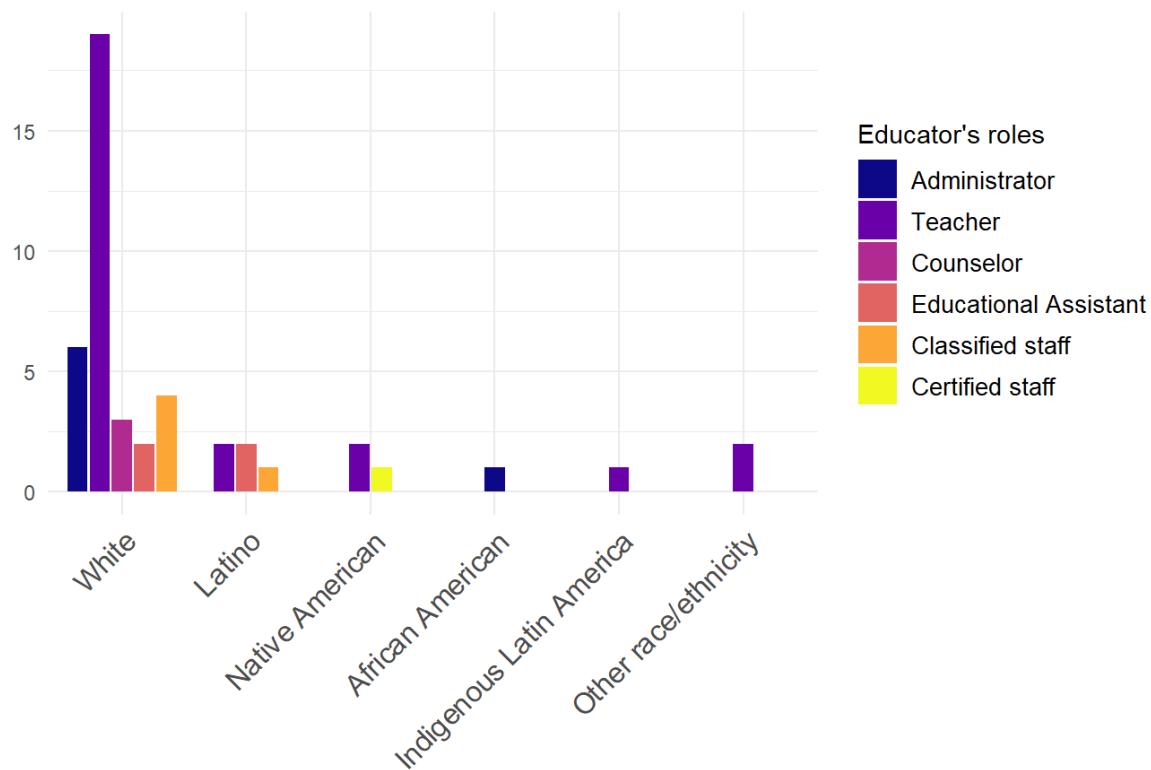


Figure 6: Educator's Races/Ethnicities and Roles

As can be seen in figure 6, educators in this sample were overwhelmingly White (81%). Other educators identified as Latino (12%), Native American (7%), Indigenous from Latin America (2%), and African American (2%). Roughly 5% identified as other race/ethnicity ¹.

Study constructs' scales

In this section, I describe the scale creation process of some of the study constructs the intervention was designed to influence. The steps involved in this process were: reverse coding of items, scale reliability check, and scale creation.

Reverse coding of items

The first step in the scale creation process was to identify which items needed to be reverse coded. Unfortunately, there was no indication in the original survey of which items needed to be reverse coded, so I had to use my subjective judgement to identify them.

This was a time consuming step because it entailed an item by item and then a scale by scale review. Luckily, once the items were identified, the reverse coding process was really fast because the [likert_reverse](#) function did the “heavy lifting”! Note that I use this function within a mutate function call.

In the code below I created a new dataframe called `elt_w1_clean_6_rev_code` where I included the new reverse coded variables.

```
elt_w1_clean_6_rev_code <- elt_w1_clean_6 %>%  
  mutate(q25 = likert_reverse(q25, top = 4, bottom = 1),  
        q73 = likert_reverse(q73, top = 4, bottom = 1),  
        q110 = likert_reverse(q110, top = 6, bottom = 1),  
        q113 = likert_reverse(q113, top = 6, bottom = 1),  
        q114 = likert_reverse(q114, top = 6, bottom = 1),  
        q115 = likert_reverse(q115, top = 6, bottom = 1),  
        q116 = likert_reverse(q116, top = 6, bottom = 1))
```

Here I only reverse coded the items involved in study constructs such as school climate, family-school relationships, and efficacy, however, the survey had other items that required reverse coding that I did not

include in this report. The following are the items I reverse coded for this report:

- Item q25: *At this school... when a student causes harm, the school's main response is to punish the student.*
- Item q73: *Regardless of Latino students' abilities, it seems most Latino students are bound for a vocational career rather than for community college or university studies.*
- Item q110: *When I really try, I can get through to most difficult students.* Item q113: *If a student did not remember information I gave in a previous lesson, I would know how to increase his/her retention in the next lesson.*
- Item 114: *If a student in my class becomes disruptive and noisy, I feel assured that I know some techniques to redirect him/her quickly.*
- Item q115: *If one of my students couldn't do a class assignment, I would be able to accurately assess whether the assignment was at the appropriate level of difficulty.* Item q116: *I can get through to even the most difficult or unmotivated students.*

Reliability check

Once I completed the reverse coding step, I checked the reliability of the scales of the study constructs mentioned before. I used Chronbach's alpha as a measure of the internal consistency of the scale and I followed these guidelines to indicate the level of the scale's reliability:

- .00 to .69 = Poor reliability
- .70 to .79 = Fair reliability
- .80 to .89 = Good reliability
- .90 to .99 = Excellent/Strong reliability

The first scale I checked was school climate. In the original survey that educators completed, the prompt indicated that these items referred to general school climate. Despite my efforts to find the original measure that was used as a reference to create these items, I was not successful in finding it. For what I gathered of the survey development process, different items from different measures were used, however, the survey developer(s) did not leave a precise record of what items belonged to what measure.

It is likely that several items from this scale were adapted from items in Part A: *General Climate Factors* of the public domain Charles F. Kettering Instrument (Fox et al., 1973) and the *Omnibus T-Scale* (Hoy &

Tschannen-Moran, 2007). It is important to note that these two measures had a number of subscales within them, thus, it is possible that the scale named here as *general school climate* also has subscales.

In the code below, first, I created a dataframe with the specific items of interest making reference to the column numbers in the dataset. Then, I checked the internal consistency of this dataframe or scale using the [alpha](#) function. I followed this same procedure for all of the scales.

Following the guidelines stated above, the general school climate scale has an excellent internal consistency or reliability, however, because Cronbach's alpha increases as the number of item increases, this high score may be due to the number of items included in the scale (24 items). This scale is a good candidate for further Exploratory and Confirmatory Factor Analyses (EFA and CFA).

For this scale, higher scores indicate better school climate. # (check this tomorrow)

```
climate_gen <- data.frame(elt_w1_clean_6_rev_code[,12:35]) # these are q1 - q24
```

```
alpha(climate_gen) # alpha = .92 --> excellent consistency
```

For the diversity engagement, the equity self-efficacy, the school-family relationship, and the teacher-family relationship scales I was not able to locate any measures of reference. These were probably created by the survey developer(s).

The diversity engagement scale has 14 items and it has an excellent internal consistency or reliability, however, by reading the items it could be seen that several topics are alluded to, from professional development to connecting student with resources. This scale is also a good candidate for EFA and CFA.

For this scale, higher scores indicate more engagement of diversity. # (check this tomorrow)

```
diver_engage <- data.frame(elt_w1_clean_6_rev_code[,47:60]) # these are q36 - q49
```

```
alpha(diver_engage) # alpha = .92 --> excellent consistency
```

The equity self-efficacy scale...

```
equity_self_eff <- data.frame(elt_w1_clean_6_rev_code[,61:66]) # q50 - q55
```

```
alpha(equity_self_eff) # alpha = .89 --> good consistency
```

The school-Latino families relationship scale...

```
scho_lat_fam_rel <- data.frame(elt_w1_clean_6_rev_code[,67:75]) # q56 - q64
alpha(scho_lat_fam_rel) # alpha = .84 good consistency
```

```
scho_lat_fam_rel_2 <- elt_w1_clean_6_rev_code %>%
  select(q56:q64, q70:q72) %>%
  data.frame()
alpha(scho_lat_fam_rel_2) # alpha = .88 --> good consistency
```

The teacher-Latino families relationship scale...

```
teach_lat_fam_rel <- data.frame(elt_w1_clean_6_rev_code[,76:87]) # q65 - q76
(q73 was reverse coded)
alpha(teach_lat_fam_rel) # alpha = .70 --> fair consistency, better if dropping q73
and q75
```

```
teach_lat_fam_rel_2 <- elt_w1_clean_6_rev_code %>%
  select(q65:q69, q74:q76) %>% # leaving out 70:73
  data.frame()
alpha(teach_lat_fam_rel_2) # alpha = .75 --> fair consistency
```

The teacher self efficacy was adapted from... Hoy & Woolfolk (1993)

talk about the way I reverse coded items and the 2 subscales.

```
# teach_self_eff_all <- data.frame(elt_w1_clean_6_rev_code[,119:128]) # q108 -
q117 (q110, q113, q114, q115, q116 were reverse coded)
# alpha(teach_self_eff_all) # alpha = .74 --> fair consistency
```

```
teach_eff_gen <- elt_w1_clean_6_rev_code %>% # general teaching efficacy
dimension in original measure
select(q108, q109, q111, q112, q117) %>%
data.frame()
alpha(teach_eff_gen) # alpha = .73 --> fair consistency
```

```
teach_eff_per <- elt_w1_clean_6_rev_code %>% # personal teaching efficacy
dimension in original measure
select(q110, q113, q114, q115, q116) %>%
data.frame()
alpha(teach_eff_per) # alpha = .88 --> good consistency
```

References

Fox, R. S., Boles, H. E., Brainard, E., Fletcher, E., Huge, J. S., Martin, C. L., Maynard, W., Monasmith, J., Olivero, J., Schmuck, R., Shaheen, T.

A., Stegeman, W. H. (1973) School climate improvement: a challenge to the school administrator. Bloomington, IN: Phi Delta Kappa Educational Foundation.

Hoy, W. K., & Tschannen-Moran, M. (2007). The conceptualization and measurement of faculty trust in schools: The Omnibus T-Scale. In Hoy, W. K., & DiPaola, M. (Eds.). Essential ideas for the reform of American schools (pp. 87-114). Charlotte, NC: IAP.

Hoy, W. K., & Woolfolk, A. E. (1993). Teachers' sense of efficacy and the organizational health of schools. The elementary school journal, 93(4), 355-372.

Scale creation

```
elt_w1_scales <- elt_w1_clean_6_rev_code %>%  
  rowwise() %>%  
  mutate(climate_general = mean(c(q1, q2, q3, q4, q5, q6, q7, q8, q9, q10, q11, q12,  
    q13, q14, q15, q16, q17, q18, q19, q20, q21, q22, q23, q24), na.rm = TRUE),  
    school_engage_diversity = mean(c(q36, q37, q38, q39, q40, q41, q42, q43, q44,  
    q45, q46, q47, q48, q49), na.rm = TRUE),  
    equity_self_efficacy = mean(c(q50, q51, q52, q53, q54, q55), na.rm = TRUE),  
    school_lat_fam_rel = mean(c(q56, q57, q58, q59, q60, q61, q62, q63, q64, q70,  
    q71, q72), na.rm = TRUE),  
    teacher_lat_fam_rel = mean(c(q65, q66, q67, q68, q69, q74, q75, q76), na.rm =  
    TRUE),  
    gen_teaching_efficacy = mean(c(q108, q109, q111, q112, q117), na.rm = TRUE),  
    per_teaching_efficacy = mean(c(q110, q113, q114, q115, q116), na.rm = TRUE))  
  %>%  
  select(1:7, 169:175)
```

Average Scores of Major Study Constructs

```
# using the function descriptives I created above  
#descrip_table <- descriptives(elt_w1_clean_6) # use df that has scales, not  
elt_w1_clean_6
```

Educator's average scores

...

note: include plots with average scores

Recommendations

I recommend...

- id protocol
 - When developing the id protocol for schools, make sure that both values and values labels coincide.
 - Assign an unique identifier for each participant and an unique identifier per family.
- Survey development
 - When creating items for a survey, indicate which items need to be reverse coded.

Appendix

Data frame: elt_w1_clean_5

<i>ID</i>	<i>Name</i>	<i>Label</i>	<i>Values</i>	<i>Value Labels</i>
1	school_id		1 2 3 4 5 6	cascade prairie_mountain kelly ata briggs agnes_stewart
2	condition		1 2	control intervention
3	response_id	Response ID		<output omitted>
4	id			<output omitted>
5	participant_role	Your role at this school: - Selected Choice	1 2 3 4 5 6	Administrator Teacher Counselor Aducatonal Assistant Other classified staff (specify) Other certified staff (specify)
6	participant_role_5_text	Your role at this school: - Other classified staff (specify) - Text		<output omitted>
7	participant_role_6_text	Your role at this school: - Other certified staff (specify) - Text		<output omitted>
8	wave			<i>range: 1-1</i>
9	q1	There are 135 questions on this survey. It is designed to be answered by all members of the school staff. As a result		

you may not always have experience with the situations we refer to.
You may feel you don't have enough contact with a certain situation to answer a certain question,
but using your best judgement, please choose the answer that best reflects your opinion and experience. Because this survey is completely voluntary, we have provided a "no response" option on all statements however, we hope that you choose to answer all questions as thoughtfully as possible using the agreement scale provided.

School Climate

This beginning section asks about your opinion of the general climate of the school.

Using the scale provided, please indicate how much you agree or disagree with each statement.

The asterisks mean the following:

• =
Parents or Guardians

** = Administrators,
teachers and all other staff

I enjoy working at this school.

10

q2 Teachers and parents*

listen to each other.	1	Strongly Disagree	
	2	Disagree	
	3	Agree	
	4	Strongly Agree	
	99	No Response	
11	q3	Students get along well with each other.	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree No Response
12	q4	I am a valued member of this school.	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree No Response
13	q5	There is a trusting relationship between teachers and students.	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree No Response
14	q6	There is a trusting relationship between teachers and parents.	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree No Response
15	q7	There is a trusting relationship between teachers.	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree No Response
16	q8	There is a trusting relationship between administrators and all other school staff**.	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree No Response
17	q9	Students in this school are enthusiastic learners.	1 2 3

4 Strongly
99 Disagree
 Disagree
 Agree
 Strongly Agree
 No Response

18	q10	Teachers are proud to be teachers.	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree No Response
19	q11	School staff is respectful to the whole school community.	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree No Response
20	q12	Parents from diverse groups are involved in the school.	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree No Response
21	q13	Administration and other school staff collaborate well.	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree No Response
22	q14	The school is welcoming to all its members.	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree No Response
23	q15	This schoolâ€¢ creates opportunities for community building.	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree No Response
24	q16	This schoolâ€¢	

			1 Strongly Disagree
			2 Disagree
			3 Agree
			4 Strongly Agree
			99 No Response
25	q17	This schoolâ€¢ actively engages parents to take part in school-related activities and functions.	1 Strongly Disagree
			2 Disagree
			3 Disagree
			4 Agree
			99 Strongly Agree
			No Response
26	q18	This schoolâ€¢ clearly communicates its expectations to students.	1 Strongly Disagree
			2 Disagree
			3 Disagree
			4 Agree
			99 Strongly Agree
			No Response
27	q19	This schoolâ€¢ clearly communicates its expectations to parents.	1 Strongly Disagree
			2 Disagree
			3 Disagree
			4 Agree
			99 Strongly Agree
			No Response
28	q20	This schoolâ€¢ is a safe and caring environment for all.	1 Strongly Disagree
			2 Disagree
			3 Disagree
			4 Agree
			99 Strongly Agree
			No Response
29	q21	This schoolâ€¢ views parents as important to the schoolâ€™s success.	1 Strongly Disagree
			2 Disagree
			3 Disagree
			4 Agree
			99 Strongly Agree
			No Response
30	q22		

		This schoolâ€¹ has parents from diverse cultures involved in school functions and activities.	1 2 3 4 99	Strongly Disagree Disagree Agree Strongly Agree No Response
31	q23	This schoolâ€¹ has a lot of parent participation in school functions and activities.	1 2 3 4 99	Strongly Disagree Disagree Agree Strongly Agree No Response
32	q24	This schoolâ€¹ creates positive relationships with all types of families, even if there are language and cultural/ethnic differences.	1 2 3 4 99	Strongly Disagree Disagree Agree Strongly Agree No Response
33	q25	This section has to do with how your school and the school community deal with conflict and challenging behaviors. Please indicate how much you agree or disagree with each statement by using the scale provided. At this schoolâ€¹	1 2 3 4 99	Strongly Disagree Disagree Agree Strongly Agree No Response
34	q26	â€¹when a student causes harm, the schoolâ€™s main response is to punish the student. At this schoolâ€¹	1 2 3 4 99	Strongly Disagree Disagree Agree Strongly Agree No Response
		â€¹when there is conflict, school staff considers the diverse background and differing points of view of the people involved.		

35	q27	At this schoolâ€¡ students and staff communicate with each other respectfully.	1	Strongly Disagree
			2	Disagree
			3	Agree
			4	Strongly Agree
			99	No Response
36	q28	At this schoolâ€¡ parents contribute to solutions for their studentâ€™s school-based behavioral problems.	1	Strongly Disagree
			2	Disagree
			3	Agree
			4	Strongly Agree
			99	No Response
37	q29	At this schoolâ€¡ when there is conflict, we focus on the needs and interests of all parties involved.	1	Strongly Disagree
			2	Disagree
			3	Agree
			4	Strongly Agree
			99	No Response
38	q30	At this schoolâ€¡ we support direct and constructive dialogue in a safe environment.	1	Strongly Disagree
			2	Disagree
			3	Agree
			4	Strongly Agree
			99	No Response
39	q31	At this schoolâ€¡ students are allowed to make amends after causing harm.	1	Strongly Disagree
			2	Disagree
			3	Agree
			4	Strongly Agree
			99	No Response
40	q32	At this schoolâ€¡ when there is conflict, it is handled quickly.	1	Strongly Disagree
			2	Disagree
			3	Agree
			4	Strongly Agree
			99	No Response
41	q33	At this schoolâ€¡ when there is conflict, we focus on repairing the harm and restoring relationships.	1	Strongly Disagree
			2	Disagree
			3	Agree
			4	Strongly Agree
			99	No Response
42	q34	At this schoolâ€¡ we learn from conflict and donâ€™t ignore it.	1	Strongly Disagree
			2	Disagree
			3	Agree
			4	Strongly Agree
			99	No Response
43	q35	At this schoolâ€¡		

			1	Strongly Disagree	
			2	Disagree	
			3	Agree	
			4	Strongly Agree	
			99	No Response	
44	q36	This section has to do with how your school and the school community engage with the different cultural backgrounds present in your school. Please indicate how much you agree or disagree with each statement by using the scale provided.	1	Strongly	
			2	Disagree	
			3	Disagree	
			4	Agree	
			88	Strongly	
			99	Agree	
			N/A		
			No		
			Response		
45	q37	As staff at this schoolâ€¢ we are committed to our own professional development and ongoing education about how our cultural backgrounds influence our work.	1	Strongly	
			2	Disagree	
			3	Disagree	
			4	Agree	
			88	Strongly	
			99	Agree	
			N/A		
			No		
			Response		
46	q38	As staff at this schoolâ€¢ we collaborate and implement best practices for teaching students from diverse cultural and language backgrounds.	1	Strongly	
			2	Disagree	
			3	Disagree	
			4	Agree	
			99	Strongly	
			Agree		
			N/A		
			No		
			Response		
47	q39	As staff at this schoolâ€¢			

			1	Strongly Disagree
			2	Disagree
			3	Agree
			4	Strongly Agree
			88	N/A
			99	No Response
48	q40	As staff at this schoolâ€!	1	Strongly
			2	Disagree
		â€!the teachers and	3	Disagree
		administrators examine policies	4	Agree
		and practices to	99	Strongly
		make sure all students are treated		Agree
		fairly.		No
				Response
49	q41	As staff at this schoolâ€!	1	Strongly
			2	Disagree
			3	Disagree
		â€!we are comfortable	4	Agree
		advocating for student equity with	99	Strongly
		other staff		Agree
		members.		No
				Response
50	q42	As staff at this schoolâ€!	1	Strongly
			2	Disagree
			3	Disagree
		â€!we ensure every student	4	Agree
		has the resources needed to	99	Strongly
		succeed (e.g. rents or		Agree
		borrow musical instruments,		No
		ensures that computer		Response
		labs are open for use, provides		
		resources and		
		materials available in languages		
		other than		
		English.)		
51	q43	As staff at this schoolâ€!	1	Strongly
			2	Disagree
			3	Disagree
		â€!we make special efforts	4	Agree
		to engage with families who have	99	Strongly
		low participation		Agree
		rates in school.		No
				Response
52	q44	As staff at this schoolâ€!		

		â€œwe provide a Family Resource Center which allows for safe and welcoming interactions between school staff and family members.	1	Strongly Disagree
			2	Disagree
			3	Agree
			4	Strongly Agree
			99	No Response
53	q45	As staff at this schoolâ€œ!	1	Strongly
			2	Disagree
			3	Disagree
			4	Agree
		â€œwe share common goals for students no matter their background and culture.	99	Strongly Agree
				No Response
54	q46	As staff at this schoolâ€œ!	1	Strongly
			2	Disagree
			3	Disagree
			4	Agree
		â€œwe see ourselves as a supportive community that includes all our families.	99	Strongly Agree
				No Response
55	q47	As staff at this schoolâ€œ!	1	Strongly
			2	Disagree
			3	Disagree
			4	Agree
		â€œwe are comfortable talking about equity issues in deep ways.	99	Strongly Agree
				No Response
56	q48	As staff at this schoolâ€œ!	1	Strongly
			2	Disagree
			3	Disagree
			4	Agree
		â€œwe are able to talk about our own personal cultural identities and experiences.	99	Strongly Agree
				No Response
57	q49	As staff at this schoolâ€œ!	1	Strongly
			2	Disagree
			3	Disagree
			4	Agree
		â€œwe donâ€™t sweep issues of race, equity, or culture under the rug.	99	Strongly Agree
				No Response

58	q50	This section has to do with having conversations about equity with your colleagues and other school staff. Please indicate how much you agree or disagree with each statement by using the scale provided.	1	Strongly
			2	Disagree
			3	Disagree
			4	Agree
			99	Strongly Agree No Response
59	q51	Even if others in my school do not share my commitment to equity issues, I know how to promote equity work.	1	Strongly
			2	Disagree
			3	Disagree
			4	Agree
			99	Strongly Agree No Response
60	q52	Even if others in my school do not share my commitment to equity issues, I know how to have difficult conversations with colleagues about issues such as implicit bias, discrimination, disproportionality (e.g., disciplinary outcomes.)	1	Strongly
			2	Disagree
			3	Disagree
			4	Agree
			99	Strongly Agree No Response
61	q53	At my school, I feel confident that I could facilitate a conversation with my colleagues about difficult topics such as implicit bias, discrimination, or disproportionality.	1	Strongly
			2	Disagree
			3	Disagree
			4	Agree
			99	Strongly Agree No Response
62	q54	At my school, I feel confident that ...if I saw a colleague acting in a way that I felt was inequitable or unfair, I would know how to reach out to that person in order to have an open and honest conversation about the incident.	1	Strongly
			2	Disagree
			3	Disagree
			4	Agree
			99	Strongly Agree No Response
63	q55	At my school, I feel confident that		

			1	Strongly Disagree
			2	Disagree
			3	Agree
			4	Strongly Agree
			99	No Response
â€œif I saw another staff member acting in a way I felt was inequitable or unfair, I would feel comfortable disrupting the behavior in a gentle, positive way.				
64	q56	This section focuses specifically on the relationship between the school and its Latino families. Please indicate how much you agree or disagree with each statement by using the scale provided.	1	Strongly Disagree
			2	Disagree
			3	Disagree
			4	Agree
			99	Strongly Agree
				No Response
At this schoolâ€œ manuals and other materials are readily available in Spanish				
65	q57	At this schoolâ€œ, information about homework, school activities, and opportunities for family involvement is available in Spanish.	1	Strongly Disagree
			2	Disagree
			3	Disagree
			4	Agree
			99	Strongly Agree
				No Response
66	q58	At this schoolâ€œ, we have an open and accepting attitude toward Latino families.	1	Strongly Disagree
			2	Disagree
			3	Disagree
			4	Agree
			99	Strongly Agree
				No Response
67	q59	At this schoolâ€œ, we have a welcoming environment for Latino cultures and languages.	1	Strongly Disagree
			2	Disagree
			3	Disagree
			4	Agree
			99	Strongly Agree

No
Response

68	q60	At this schoolâ€¦ teachers, administrators and school staff actively engage Latino families in school activities and functions.	1	Strongly
			2	Disagree
			3	Disagree
			4	Agree
			99	Strongly Agree No Response
69	q61	At this schoolâ€¦ a bilingual (Spanish/English) staff member or translator is readily available when needed or requested.	1	Strongly
			2	Disagree
			3	Disagree
			4	Agree
			99	Strongly Agree No Response
70	q62	At this schoolâ€¦ we hold a number of multi-cultural events and social nights in Spanish or bilingually.	1	Strongly
			2	Disagree
			3	Disagree
			4	Agree
			99	Strongly Agree No Response
71	q63	At this schoolâ€¦ we actively seek the participation of our Latino families in all aspects of the school.	1	Strongly
			2	Disagree
			3	Disagree
			4	Agree
			99	Strongly Agree No Response
72	q64	At this schoolâ€¦ we offer workshops in Spanish on topics such as parent leadership in the school, how to understand the curriculum, and ways to help children succeed academically.	1	Strongly
			2	Disagree
			3	Disagree
			4	Agree
			99	Strongly Agree No Response
73	q65	This section has to do with your relationship with Latino families. Please indicate how much you agree or disagree with each statement by using the scale provided.		

		In general, I feel I can talk with and am heard by Latino parents.	1	Strongly Disagree	
			2	Disagree	
			3	Agree	
			4	Strongly Agree	
			88	N/A	
			99	No Response	
74	q66	If I had a problem with a Latino child, I would feel comfortable talking to his/her parent about the situation.	1	Strongly	
			2	Disagree	
			3	Disagree	
			4	Agree	
			99	Strongly Agree	
				No Response	
75	q67	If I am in contact with a Latino family, I keep in mind that Latino families come from a variety of different cultures and linguistic backgrounds.	1	Strongly	
			2	Disagree	
			3	Disagree	
			4	Agree	
			99	Strongly Agree	
				No Response	
76	q68	When I communicate with Latino families, I keep in mind that many Latino parents may not understand how to navigate the educational system in this country.	1	Strongly	
			2	Disagree	
			3	Disagree	
			4	Agree	
			99	Strongly Agree	
				No response	
77	q69	I reach out to Latino families so they feel like part of the school community.	1	Strongly	
			2	Disagree	
			3	Disagree	
			4	Agree	
			99	Strongly Agree	
				No Response	
78	q70	The school makes Latino parents aware of opportunities for leadership roles in the school such as the Parent-Teacher Association or other decision-making opportunities.	1	Strongly	
			2	Disagree	
			3	Disagree	
			4	Agree	
			99	Strongly Agree	
				No Response	

79	q71	Community resources and information are readily available and in Spanish at this school.	1	Strongly Disagree
			2	Disagree
			3	Agree
			4	Strongly Agree
			99	No Response
80	q72	This school reaches out to community organizations that focus on Latino families.	1	Strongly Disagree
			2	Disagree
			3	Agree
			4	Strongly Agree
			99	No Response
81	q73	Regardless of Latino students' abilities, it seems most Latino students are bound for a vocational career rather than for community college or university studies.	1	Strongly Disagree
			2	Disagree
			3	Agree
			4	Strongly Agree
			99	No Response
82	q74	In general, Latino parents ask questions or make suggestions to me about their child.	1	Strongly Disagree
			2	Disagree
			3	Agree
			4	Strongly Agree
			88	N/A
			99	No Response
83	q75	In general, I see Latino parents supporting their children's education, such as going to the library or helping with homework.	1	Strongly Disagree
			2	Disagree
			3	Agree
			4	Strongly Agree
			99	No Response
84	q76	In general, Latino parents are involved in their children's lives at school.	1	Strongly Disagree
			2	Disagree
			3	Agree
			4	Strongly Agree
			99	No Response
85	q77	The next section is about the classroom environment. You do not necessarily have to be a teacher or teaching assistant, we are looking for your opinion about how you think the classroom environment is at your school. If you feel you have enough knowledge of how the classroom operates, even if you are not a teacher or teaching assistant, please answer the next section by answering 'yes', if not, answer 'no' below.	1	Yes
			2	No

86	q78	For teachers, teacher assistants, and staff who interact in the classroom environment.	1 Strongly Disagree 2 Disagree 3 Agree 4 Strongly Agree
<p>The following questions are about interactions between you and your students in your classroom. Please answer how much you agree or disagree with the following in your classroom(s) using the scale provided.</p> <p>In the classroomâ€¢ we honor individual perspectives.</p>			
<p>87 q79 In the classroomâ€¢ we have class discussions that celebrate the rich cultures and backgrounds present at our school and in our classroom.</p>			
<p>88 q80 In the classroomâ€¢ we embrace all cultural and family differences as assets to our school.</p>			
<p>89 q81 In the classroomâ€¢ we role model behaviors of inclusion.</p>			
<p>90 q82 In the classroomâ€¢ we engage in relationship-building activities in the classroom.</p>			
<p>91 q83 In the classroomâ€¢ we talk about the importance of seeing from anotherâ€™s point of view as a way to challenge personal assumptions, implicit biases, and stereotypes.</p>			
<p>92 q84 In the classroomâ€¢ we use examples from the different cultural experiences in the class to enrich our discussions.</p>			

93	q85	In the classroomâ€ â€ we talk about how stereotypes and assumptions can cause injustice.	1 2 3 4	Strongly Disagree Disagree Disagree Agree Strongly Agree
94	q86	In the classroomâ€ â€ we reflect on how our own personal beliefs, backgrounds, and assumptions may affect how we interact with others.	1 2 3 4	Strongly Disagree Disagree Disagree Agree Strongly Agree
95	q87	In the classroomâ€ â€ we discuss how different beliefs, assumptions and stereotypes can create an uneven playing field for minorities and other under-represented groups.	1 2 3 4	Strongly Disagree Disagree Disagree Agree Strongly Agree
96	q88	In the classroomâ€ â€ we discuss how stereotypes and different beliefs that exist in our society can lead to achievement gaps.	1 2 3 4	Strongly Disagree Disagree Disagree Agree Strongly Agree
97	q89	In the classroomâ€ â€ we discuss the importance of giving back to the community through volunteering or other community outreach projects.	1 2 3 4	Strongly Disagree Disagree Disagree Agree Strongly Agree
98	q90	In the classroomâ€ â€ we practice active listening.	1 2 3 4 99	Strongly Disagree Disagree Disagree Agree Strongly Agree No response
99	q91	In the classroomâ€ â€ we create an environment that all of us enjoy being part of.	1 2 3 4 99	Strongly Disagree Disagree Disagree Agree Strongly Agree No response
100	q92	In the classroomâ€ â€ we work together to resolve most conflicts that arise.	1 2 3 4 99	Strongly Disagree Disagree Disagree Agree Strongly Agree No response
101	q93	In the classroomâ€ â€ we are allies against social injustices (i.e., racism, sexism, classism, etc.)	1 2	

3 Strongly
4 Disagree
99 Disagree
 Agree
 Strongly
 Agree
 No response

102	q94	In the classroomâ€¢ we expect each other to perform to our highest ability.	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree No response
103	q95	In the classroomâ€¢ our classroom celebrates diversity (through books, posters on the wall, etc.)	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree No response
104	q96	In the classroomâ€¢ students are very aware of expectations of behavior.	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree No response
105	q97	In the classroomâ€¢ I reinforce and encourage desired behavior of my students through positive recognition (for example, praise or compliments).	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree No response
106	q98	Several of the following statements assume a role of interacting with students in the classroom, however you still may have contact with students outside the classroom, if certain situations do not apply to you please use the N/A option,	

otherwise use the scale provided for your answer.		1	Strongly Disagree
During this school year, I haveâ€¢!		2	Disagree
		3	Agree
		4	Strongly Agree
greeted the English Language Learners in my classroom (or students at the school in general) with a word or phrase from their heritage language.			
107	q99	During this school year, I haveâ€¢! â€¢ looked up information about the cultures of my students, (or the students at this school in general).	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree
108	q100	During this school year, I haveâ€¢! â€¢ developed personal relationships with my students.	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree
109	q101	During this school year, I haveâ€¢! â€¢ helped students develop positive relationships with their classmates.	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree
110	q102	During this school year, I haveâ€¢! â€¢ determined whether my students like to work in groups or individually.	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree No response
111	q103	During this school year, I haveâ€¢! â€¢ taken steps to learn about the difference between equity and equality.	1 Strongly 2 Disagree 3 Disagree 4 Agree 99 Strongly Agree

No
response

112	q104	During this school year, I haveâ€œâ€œ examined my own position of power and privilege.	1	Strongly
			2	Disagree
			3	Disagree
			4	Agree
			99	Strongly Agree Agree No response
113	q105	During this school year, I haveâ€œâ€œ taken a class or a professional development course on issues such as equity or cultural responsiveness.	1	Strongly
			2	Disagree
			3	Disagree
			4	Agree
			88	Strongly Agree
			99	N/A No response
114	q106	During this school year, I haveâ€œâ€œ concentrated on the learning style of my students in order to create multiple pathways for students to be successful.	1	Strongly
			2	Disagree
			3	Disagree
			4	Agree
			88	Strongly Agree
			99	N/A No response
115	q107	Are you a teacher, Teacher's Assistant (TA), or any other form of school staff that aids in hands on activities in the classroom?	1	Yes
			2	No
116	q108	<p>Teacher Efficacy Scale (Short Form)</p> <p>*In Hoy, W.K. & Woolfolk, A.E. (1993). Teachers' sense of efficacy and the organizational health of schools.</p> <p>The Elementary School Journal 93, 356-372.</p> <p>A number of statements about organizations, people, and teaching are presented below. The purpose is to gather information regarding the attitudes of</p>		

educators concerning these statements.

Please indicate how much you agree or disagree with each statement by using the scale provided.

1	Strongly Agree
2	Moderately Agree
3	Agree slightly more than disagree
4	Disagree slightly more than agree
5	Moderately Disagree
6	Strongly Disagree
99	No response

The amount a student can learn is primarily related to family background.

117	q109	If students aren't disciplined at home, they aren't likely to accept any discipline.	1	Strongly Agree
			2	Moderately
			3	Agree
			4	Agree slightly more than disagree
			5	Disagree
			6	Moderately Disagree
			99	Strongly Disagree
				No response
118	q110	When I really try, I can get through to most difficult students.	1	Strongly Agree
			2	Moderately
			3	Agree
			4	Agree slightly more than disagree
			5	Disagree
			6	Moderately Disagree
			99	Strongly Disagree
				No response
119	q111	A teacher is very limited in what he/she can achieve because a student's home environment is a		

large influence on his/her achievement.	1	Strongly Agree		
	2	Moderately Agree		
	3	Agree slightly more than disagree		
	4	Disagree slightly more than agree		
	5	Moderately Disagree		
	6	Strongly Disagree		
	99	No response		
120	q112	If parents would do more for their children, I could do more.	1	Strongly Agree
			2	Moderately Agree
			3	Agree slightly more than disagree
			4	Disagree slightly more than agree
			5	Moderately Disagree
			6	Strongly Disagree
			99	No response
121	q113	If a student did not remember information I gave in a previous lesson, I would know how to increase his/her retention in the next lesson.	1	Strongly Agree
			2	Moderately Agree
			3	Agree slightly more than disagree
			4	Disagree slightly more than agree
			5	Moderately Disagree
			6	Strongly Disagree
			99	No response
122	q114	If a student in my class becomes disruptive and noisy, I feel assured that I know some techniques to redirect him/her quickly.	1	Strongly Agree
			2	Moderately Agree
			3	Agree slightly more than disagree
			4	Disagree slightly more than agree
			5	Moderately Disagree
			6	Strongly Disagree
			99	No response
123	q115	If one of my students couldn't do a class assignment, I would be able to accurately assess whether the assignment was at		

the appropriate level of difficulty.	1 2 3 4 5 6 99	Strongly Agree Moderately Agree Agree slightly more than disagree Disagree slightly more than agree Moderately Disagree Strongly Disagree No response
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124	q116	I can get through to even the most difficult or unmotivated students.	1 2 3 4 5 6 99	Strongly Agree Moderately Agree Agree slightly more than disagree Disagree slightly more than agree Moderately Disagree Strongly Disagree No response
125	q117	A teacher really can't do much because most of a student's motivation and performance depends on his or her home environment.	1 2 3 4 5 6 99	Strongly Agree Moderately Agree Agree slightly more than disagree Disagree slightly more than agree Moderately Disagree Strongly Disagree No response

126	q118	<p>This section has to do with the environment at your school since the presidential election of 2016. "Reprinted with permission of Teaching Tolerance, a project of the Southern Poverty Law Center. www.tolerance.org"</p> <p>Using the scale provided please answer how much you agree or disagree with the following statements.</p> <p>Since the presidential election of 2016, at my school!</p>
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	I have witnessed an increase in anti-immigrant sentiment.	1 2 3 4 99	Strongly Disagree Somewhat Disagree Somewhat Agree Strongly Agree No response
127	q119 Since the presidential election of 2016, at my schoolâ€¹ Students have expressed an increased unease or fear about what may happen to them or their families.	1 2 3 4 99	Strongly Disagree Somewhat Disagree Somewhat Agree Strongly Agree No response
128	q120 Since the presidential election of 2016, at my schoolâ€¹ I have noticed an increase in derogatory language or slurs about students of color.	1 2 3 4 99	Strongly Disagree Somewhat Disagree Somewhat Agree Strongly Agree No response
129	q121 Since the presidential election of 2016, at my schoolâ€¹ Students are targeting other students based on who they supported in the election.	1 2 3 4 99	Strongly Disagree Somewhat Disagree Somewhat Agree Strongly Agree No response
130	q122 Since the presidential election of 2016, at my schoolâ€¹ Teachers or administrators are being harassed for standing up for children.	1 2 3 4 99	Strongly Disagree Somewhat Disagree Somewhat Agree Strongly Agree No response
131	q123 Since the presidential		

election of 2016, at my schoolâ€!	1 2 3 4 99	Strongly Disagree Somewhat Disagree Somewhat Agree Strongly Agree No response		
The administration is being responsive to incidents that occur due to the post-election climate.				
132	q124	Since the presidential election of 2016, at my schoolâ€!	1 2 3 4 99	Strongly Disagree Disagree Somewhat Agree Disagree Somewhat Agree Strongly Agree No response
		Teachers and administrators have put in place a support system specifically to help the school deal with the post-election climate.		
133	q125	Since the presidential election of 2016, if specific incidents of election-related bigotry or harassment have occurred in your school, please describe them in the space below. (In about 400 words or less)		<output omitted>
134	q126	Since the presidential election of 2016, using the space below, please describe any examples of hope or inclusion that have occurred in your school following the election. (In about 400 words or less)		<output omitted>
135	age			range: -99-62
136	birth_country	In which country were you born? (MARK one) - Selected Choice	1 2 99	United States Another country (specify):

No response				
	137	another_birth_country_text	In which country were you born? (MARK one) - Another country (specify): - Text	<output omitted>
	138	age_first_moved_us	If you were born outside the U.S, how old were you when you first moved to the US? - Age: - Text	
	139	white	Please describe your race/ethnicity: (MARK those that apply) - Selected Choice White	1 White
	140	hispanic_latino_spanish	Please describe your race/ethnicity: (MARK those that apply) - Selected Choice Hispanic, Latino, or Spanish Origin	1 Hispanic, Latino, or Spanish Origin
	141	black_african_american	Please describe your race/ethnicity: (MARK those that apply) - Selected Choice Black or African American	1 Black or African American
	142	asian	Please describe your race/ethnicity: (MARK those that apply) - Selected Choice Asian	1 Asian

143	american_indian_alaska_native	Please describe your race/ethnicity: (MARK those that apply) - Selected Choice American Indian, Alaska Native	1	American Indian, Alaska Native
144	indigenous_americas	Please describe your race/ethnicity: (MARK those that apply) - Selected Choice Indigenous from Mexico, Central America or South America (specify):	1	Indigenous from Mexico, Central America or South America (specify):
145	middle_eastern_north_african	Please describe your race/ethnicity: (MARK those that apply) - Selected Choice Middle Eastern or North African	1	Middle Eastern or North African
146	native_hawaiian_pacific_islander	Please describe your race/ethnicity: (MARK those that apply) - Selected Choice Native Hawaiian or other Pacific Islander	1	Native Hawaiian or other Pacific Islander
147	race_ethnicity_other	Please describe your race/ethnicity: (MARK those that apply) - Selected Choice Other: (specify)	1	Other: (specify)
148	race_ethnicity_no_response	Please describe your race/ethnicity:		

	(MARK those that apply) - Selected Choice no response	1	no response	
149	indigenous_americas_text	Please describe your race/ethnicity: (MARK those that apply) - Indigenous from Mexico, Central America or South America (specify): - Text	<output omitted>	
150	race_ethnicity_other_text	Please describe your race/ethnicity: (MARK those that apply) - Other: (specify) - Text	<output omitted>	
151	gender_id	Gender identity: - Selected Choice	1 2 3	Male Female Other (specify)
152	years_in_position	How long have you been in your current career position (regardless of school/site)?	1 2 3 4 99	Less than 1 year 1 to 5 years 5 to 10 years 10 years or more no response
153	years_in_school	How many years have you worked at your current school?	1 2 3 4 99	Less than 1 year 1 to 5 years 5 to 10 years 10 years or more No response
154	equity_leadership	My continuing education coursework has covered the following topics (MARK all that apply): - Selected Choice Equity leadershipâ€	1	Equity leadershipâ€

155	cultural_responsiveness	My continuing education coursework has covered the following topics (MARK all that apply): - Selected Choice Cultural responsivenessâ€â€	1	Cultural responsivenessâ€â€
156	restorative_practices	My continuing education coursework has covered the following topics (MARK all that apply): - Selected Choice Restorative practicesâ€â€	1	Restorative practicesâ€â€
157	diversity	My continuing education coursework has covered the following topics (MARK all that apply): - Selected Choice Diversityâ€	1	Diversityâ€
158	ell	My continuing education coursework has covered the following topics (MARK all that apply): - Selected Choice English language learners	1	English language learners
159	cont_ed_other	My continuing education coursework has covered the following topics (MARK all that apply): - Selected Choice Other, explain	1	Other, explain
160	cont_ed_na	My continuing education coursework has covered the following topics (MARK all that apply): - Selected Choice N/A, I am not required to take continuing education courses	1	N/A, I am not required to take continuing education courses
161	cont_ed_no_response	My continuing education coursework has covered the following topics (MARK		

all that apply):	1	No response	
- Selected			
Choice No			
response			
162	cont_ed_other_text	My continuing education coursework has covered the following topics (MARK all that apply): - Other, explain - Text	<output omitted>
163	english_comfort		1 not at all 2 comfortable 3 somewhat 4 comfortable 99 comfortable very comfortable no response
164	spanish_comfort		1 not at all 2 comfortable 3 somewhat 4 comfortable 99 comfortable very comfortable no response
165	other1_lang	How comfortable are you speaking the following languages? - Other (specify, or mark NA if it doesn't apply) - Text	<output omitted>
166	other1_lang_comfort		1 not at all 2 comfortable 3 somewhat 4 comfortable 99 comfortable very comfortable no response
167	other2_lang	How comfortable are you speaking the following languages? - Other (specify, or mark NA if it doesn't apply) - Text	<output omitted>
168	other2_lang_comfort		1 2

3	not at all comfortable
4	somewhat comfortable
99	comfortable
	very comfortable
	no response

1. In this study, participants were allowed to select as many races or ethnicities they felt identified with, thus, percent of total adds up to more than 100%[✉](#)

