*Figure 1*. The distribution of algebra repeaters when compared to students taking algebra for the first time across final grades in algebra

Table 1

*Crosstabulation of Algebra Course Status and AP Math Course Enrollment*

|  |  |  |
| --- | --- | --- |
|   | Algebra Course Pattern |   |
| AP Course in Math | Algebra Repeater | Taking Algebra for the First Time | χ2 |
| No | 246 | 757 | 6.24\* |
| Yes | 125 | 278 |   |
| Note. \*= *p* < .05. |  |  |  |

**Teacher Collective Responsibility**

Low – 1 SD below the Mean

 Average – At the Mean

 High – 1 SD above the Mean

 FemalesMales

*Figure 2.*The three-way interaction between algebra course type, teacher collective responsibility, and gender (left panel = females and right panel = males).

Table 2

*Multiple Regression Results for Final Grade in Algebra*

|  |  |
| --- | --- |
|  | Final Grade in Algebra |
|  | Model 1 | Model 2 | Model 3 |
| Parameter |  |  |  |
| Constant |  2.34(.14)\*\*\* |  2.36(.15)\*\*\* |  2.36(.15)\*\*\* |
| Suburb |  .05 (.06) |  .05 (.06) |  .05 (.06) |
| Town |  .09 (.08) |  .10 (.08) |  .10 (.08) |
| Rural |  .15 (.08) |  .15 (.08) |  .15 (.08) |
| Socio-economic Status |  .04 (.02)\* |  .04 (.02)\* |  .04 (.02)\* |
| Math Test Score  |  .03 (.00)\*\*\* |  .03 (.00)\*\*\* |  .03 (.00)\*\*\* |
| American Indian and Alaska Native |  -.40 (.22) |  -.40 (.22) |  -.40 (.22) |
| Asian |  .22 (.09)\* |  .22 (.09)\* |  .22 (.09)\* |
| Black and African American |  -.13 (.08) |  -.13 (.08) |  -.13 (.08) |
| Hispanic (no race specified) |  -.35 (.23) |  -.36 (.22) |  -.35 (.24) |
| Hispanic |  -.18 (.08)\* |  -.18 (.09)\* |  -.18 (.08)\* |
| More than one race |  -.17 (.09) |  -.17 (.09) |  -.17 (.09) |
| Native Hawaiian and Pacific Islander |  -.21 (.29) |  -.20 (.30) |  -.20 (.30) |
| Taking Algebra for the First Time |  -.08 (.07) |  -.10 (.10) |  -.09 (.10) |
| Female |  .26 (.04)\*\*\* |  .21 (.10)\* |  .23 (.10)\* |
| Teacher Collective Responsibility |  .02 (.02) |  .04 (.06) |  .14 (.07)\* |
| Taking Algebra for the First Time X Teacher Collective Responsibility |  |  -.04 (.05) |  -.17 (.07)\* |
| Taking Algebra for the First Time X Female |  |  .06 (.11) |  .04 (.11) |
| Female X Teacher Collective Responsibility |  |  .04 (.04)\* |  -.19 (.09)\* |
| Taking Algebra for the First Time X Female X Teacher Collective Responsibility |  |  |  .27 (.10)\*\* |
|  *p*<.05 ; \*\**p*<.01 ; \*\*\**p*<.001 *Note.* White, Male, and City are the reference group |