

Supplementary materials

Enrolment Information

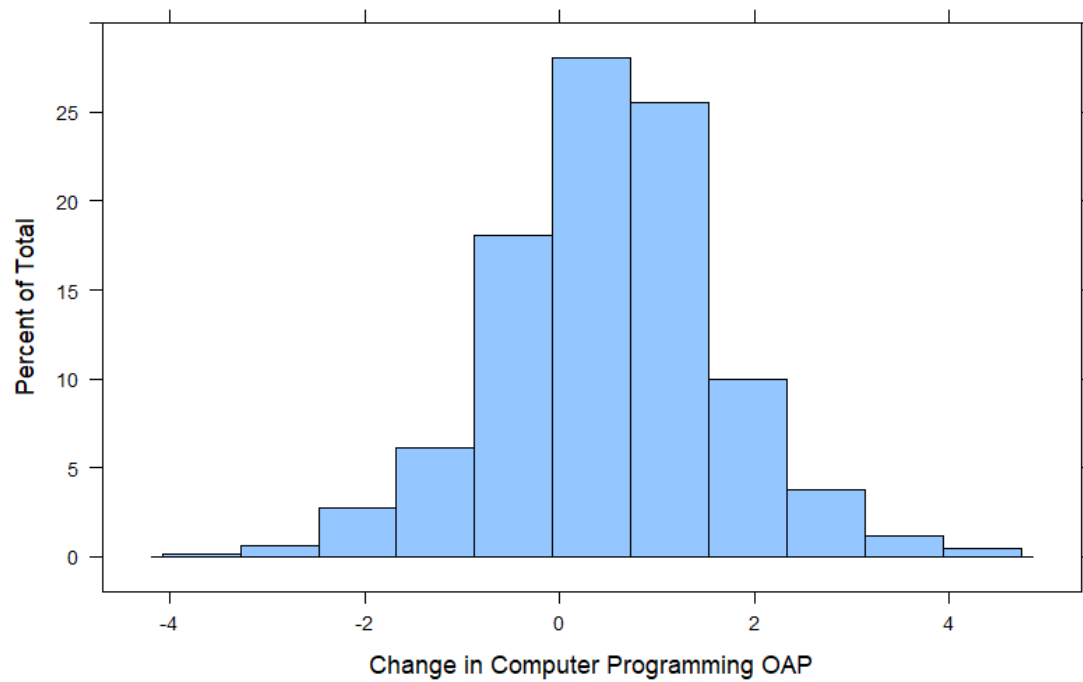
Supplementary Table 1. Number of matched students divided by enrolment after census date

Year	Semester		
	1	2	3
2019		$\frac{62}{223} = 0.28$	$\frac{10}{54} = 0.19$
2020	$\frac{131}{816} = 0.16$	$\frac{29}{235} = 0.12$	$\frac{21}{118} = 0.18$
2021	$\frac{310}{1047} = 0.30$	$\frac{33}{246} = 0.13$	$\frac{6}{91} = 0.07$
2022	$\frac{205}{993} = 0.21$	$\frac{20}{242} = 0.08$	$\frac{9}{77} = 0.12$
2023	$\frac{178}{863} = 0.21$	$\frac{29}{250} = 0.12$	$\frac{14}{97} = 0.14$

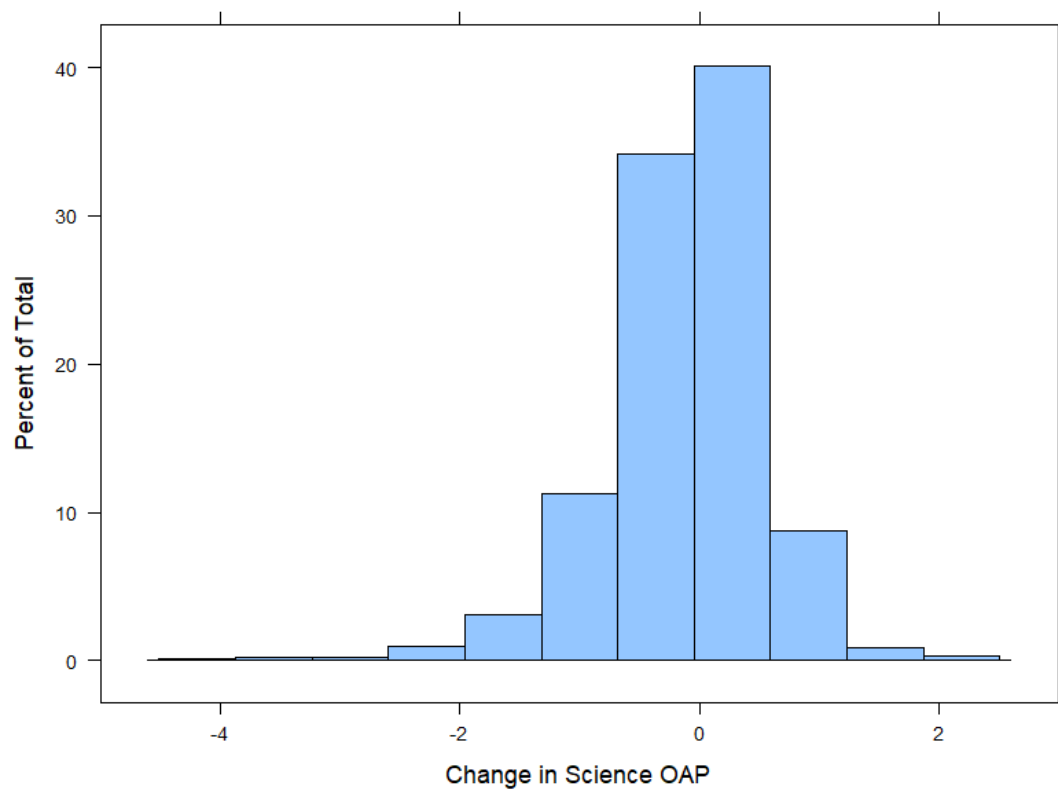
Note About Participant Age

Since our data collection was restricted to students above 18 years of age, we noted that some students were not over the age of 18 in Semester 1 Week 1. We found that 19% of consenting participants in the pre-survey did not meet the minimum age requirement, while only 6% of students were excluded for being underage in the post-survey. Therefore, many unmatched scores could be attributed to participants turning 18 during the semester. This simply lowers the sample sizes than could otherwise have been possible and is not something we expect would result in any substantial bias in the data.

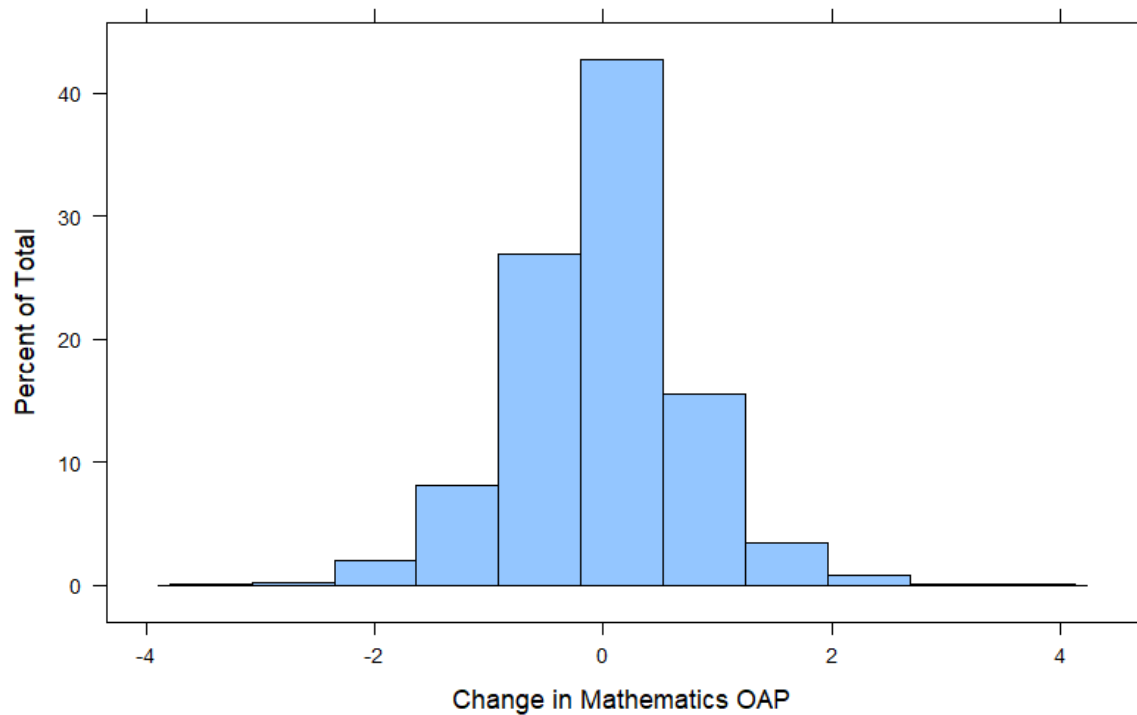
Distribution of OAPs



Supplementary Figure 1. Histogram of change in computer programming OAP (post-survey OAP subtracted by pre-survey OAP)



Supplementary Figure 2. Histogram of change in science OAP (post-survey AP subtracted by pre-survey OAP)



Supplementary Figure 3. Histogram of change in mathematics OAP (post-survey OAP subtracted by pre-survey OAP)

Investigating Missing Data

We performed Little's MCAR test on both the pre- and post-survey matched data. We found that the presurvey data was Missing Completely At Random, $\chi^2(3275) = 2824$, $p = 1.000$, and there was evidence that the post-survey data was not Missing Completely At Random $\chi^2(697) = 786$, $p = .010$. We investigated whether the post-survey data was Missing At Random and found that responses to Science attitude and perception items 9, 10, and 12 explained missingness in Science attitude and perception item 2.