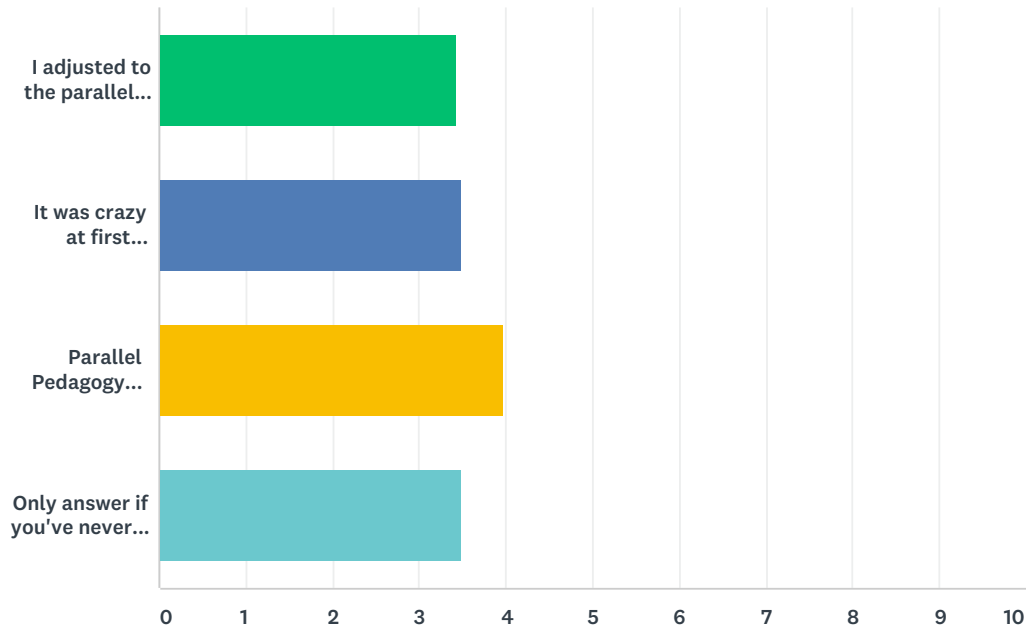


## Q1 Learning concepts in parallel - what was it like for you?

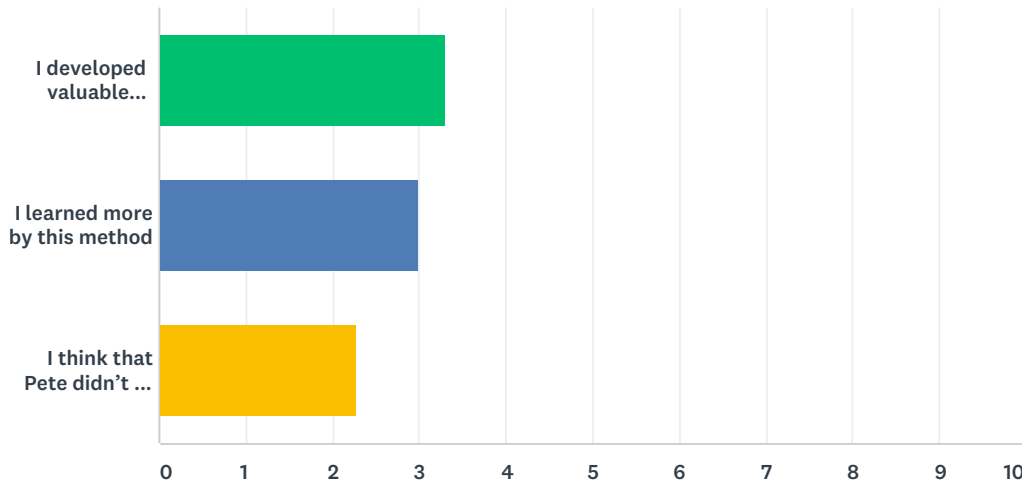
Answered: 37 Skipped: 0



	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE	TOTAL	WEIGHTED AVERAGE
I adjusted to the parallel pedagogy very well	0.00% 0	21.62% 8	24.32% 9	43.24% 16	10.81% 4	37	3.43
It was crazy at first getting all those concepts	2.70% 1	21.62% 8	27.03% 10	21.62% 8	27.03% 10	37	3.49
Parallel Pedagogy resulted in my thinking more about concepts.	0.00% 0	2.70% 1	24.32% 9	45.95% 17	27.03% 10	37	3.97
Only answer if you've never had physics before: "learning all the concepts in parallel seemed natural to me. I only know it is an alternative pedagogy because you told us it is."	10.00% 1	10.00% 1	40.00% 4	0.00% 0	40.00% 4	10	3.50

**Q2 In a flipped classroom, students are exposed to the material at home and class time is used to work problems and develop working groups. How did this work for you?**

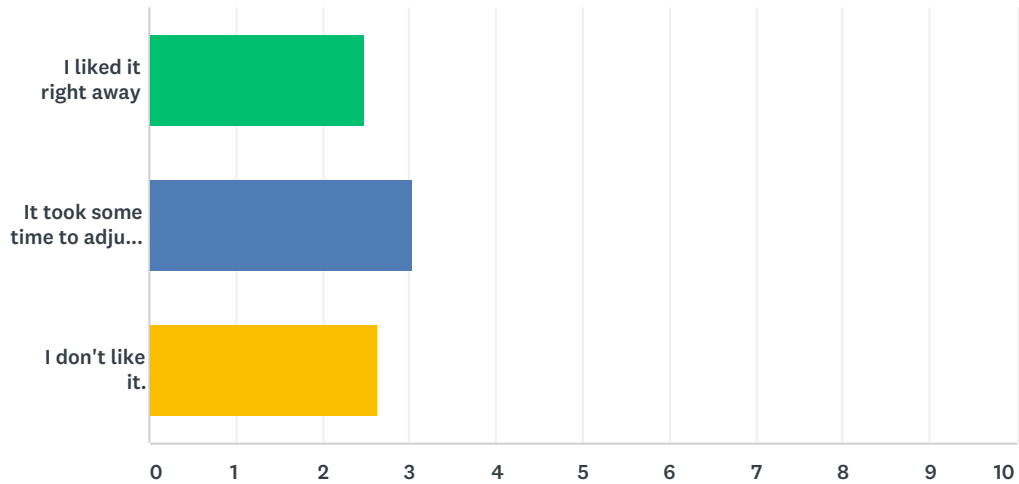
Answered: 37 Skipped: 0



	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE	TOTAL	WEIGHTED AVERAGE
I developed valuable working and social relationships in the class	2.70% 1	27.03% 10	21.62% 8	35.14% 13	13.51% 5	37	3.30
I learned more by this method	5.41% 2	35.14% 13	24.32% 9	24.32% 9	10.81% 4	37	3.00
I think that Pete didn't do his job as an instructor	24.32% 9	32.43% 12	35.14% 13	8.11% 3	0.00% 0	37	2.27

### Q3 How did you adjust to the flipped classroom method?

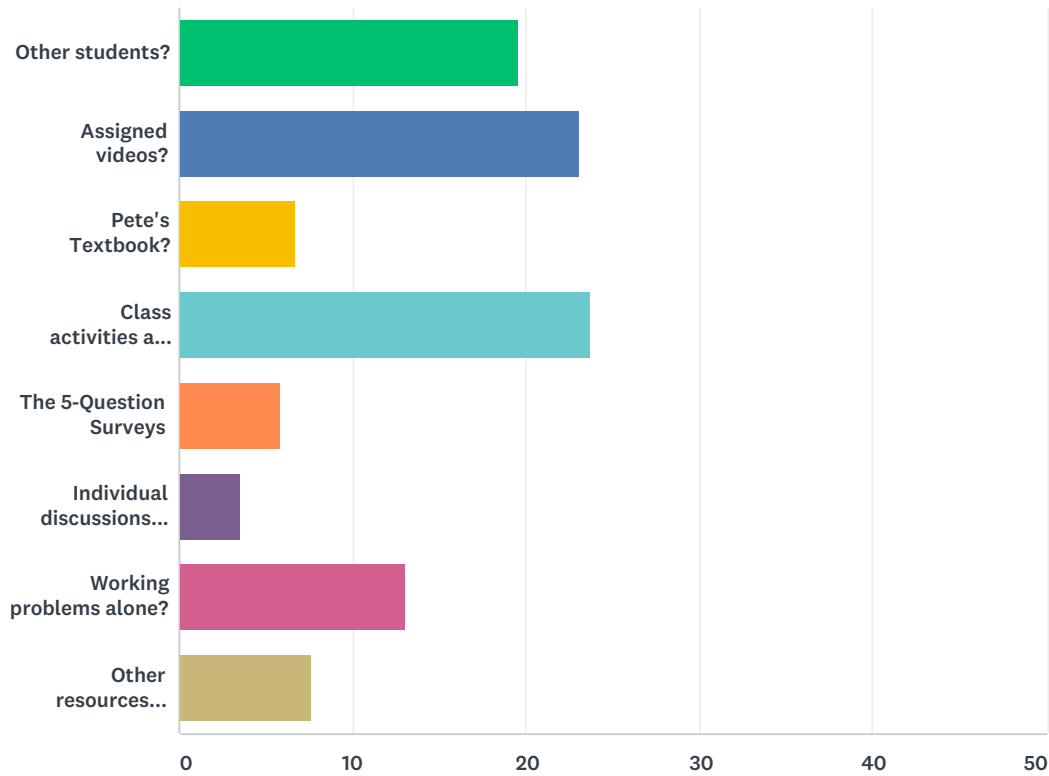
Answered: 37 Skipped: 0



	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE	TOTAL	WEIGHTED AVERAGE
I liked it right away	16.67% 6	52.78% 19	2.78% 1	19.44% 7	8.33% 3	36	2.50
It took some time to adjust to, but I like it	0.00% 0	32.43% 12	35.14% 13	29.73% 11	2.70% 1	37	3.03
I don't like it.	16.67% 6	36.11% 13	16.67% 6	27.78% 10	2.78% 1	36	2.64

### Q4 What percentage of your learning came from these different resources? Answers must add to 100, and please leave out "%" in your numbers

Answered: 37 Skipped: 0



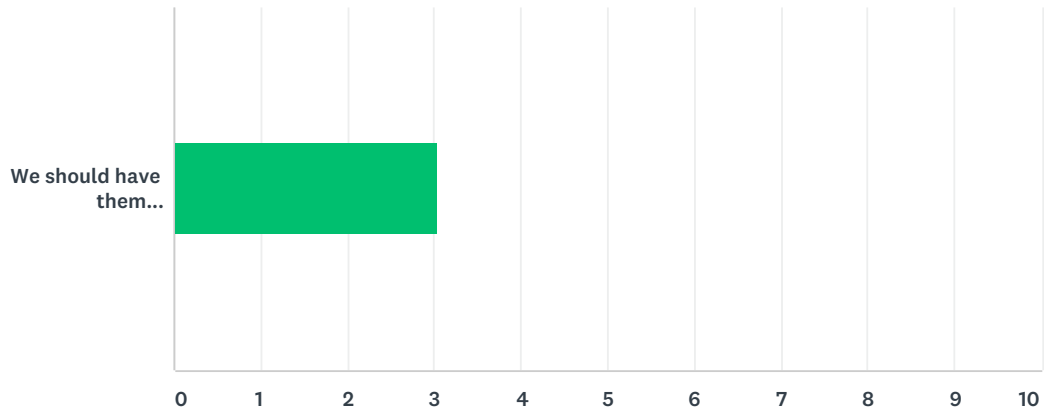
ANSWER CHOICES	AVERAGE NUMBER	TOTAL NUMBER	RESPONSES
Other students?	20	705	36
Assigned videos?	23	854	37
Pete's Textbook?	7	248	37
Class activities and minilectures?	24	853	36
The 5-Question Surveys	6	215	37
Individual discussions with Pete?	4	127	36
Working problems alone?	13	469	36
Other resources (people, printed material, online)?	8	229	30
Total Respondents: 37			

**Q5 If you listed "other resources" above, please describe what the other is, and list any comment you like.**

Answered: 12 Skipped: 25

### Q6 With regard to the 5-question surveys, should we continue them?

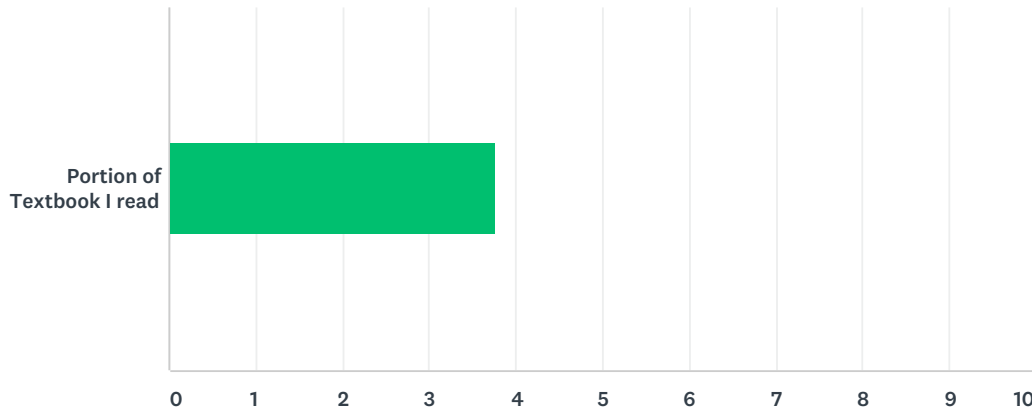
Answered: 37 Skipped: 0



	NEVER AGAIN	LESS OFTEN	THE SAME IS IN THIS CLASS	MORE OFTEN	EVERY CLASS	TOTAL	WEIGHTED AVERAGE
We should have them...	2.70% 1	10.81% 4	67.57% 25	18.92% 7	0.00% 0	37	3.03

## Q7 About what portion of the textbook did you read?

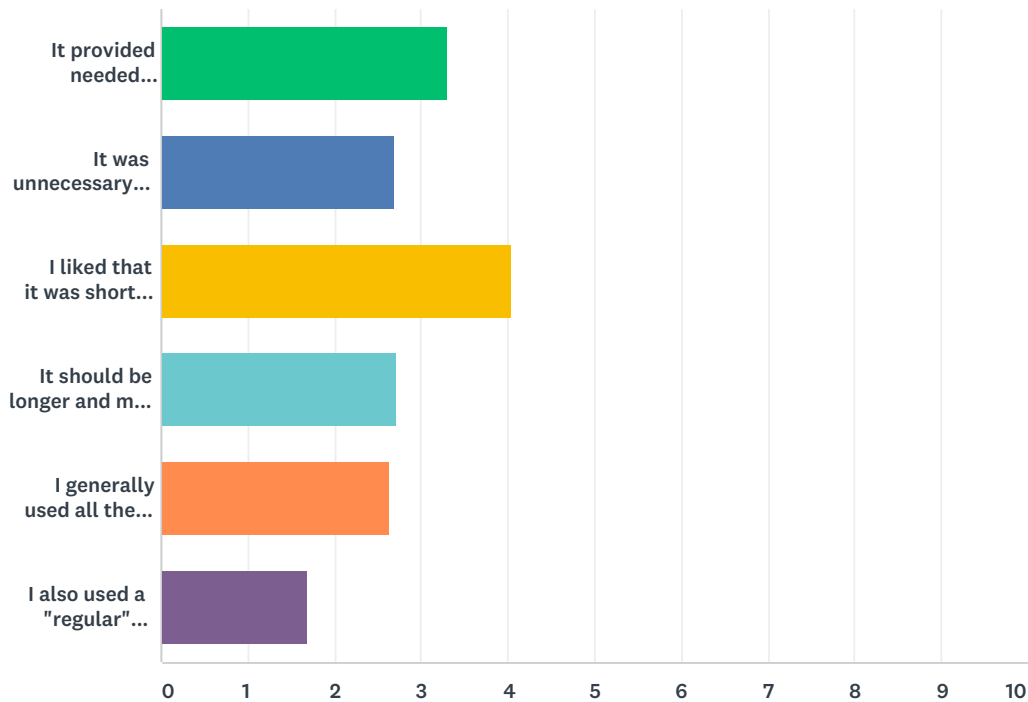
Answered: 37 Skipped: 0



	0%	20%	40%	60%	80%	100%	TOTAL	WEIGHTED AVERAGE
Portion of Textbook I read	5.41%	13.51%	21.62%	32.43%	13.51%	13.51%	37	3.76
	2	5	8	12	5	5		

## Q8 Please describe your experience with the textbook Pete provided chapter by chapter on the website.

Answered: 37 Skipped: 0

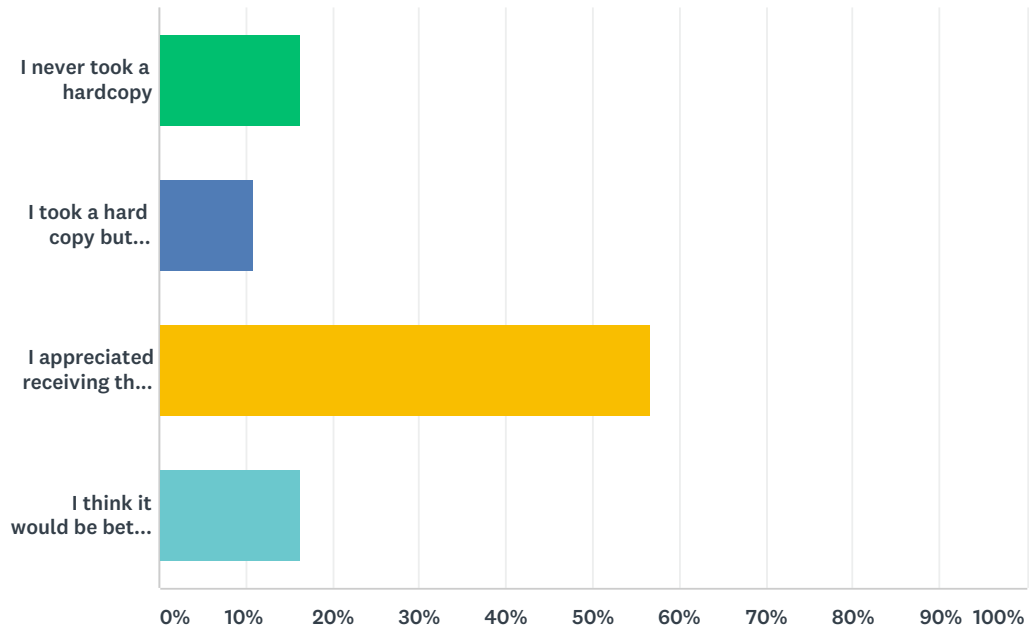


	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE	TOTAL	WEIGHTED AVERAGE
It provided needed background to supplement the videos	0.00% 0	25.00% 9	27.78% 10	38.89% 14	8.33% 3	36	3.31
It was unnecessary because the videos provide everything I need	5.41% 2	45.95% 17	24.32% 9	21.62% 8	2.70% 1	37	2.70
I liked that it was short and simple.	0.00% 0	11.11% 4	11.11% 4	41.67% 15	36.11% 13	36	4.03
It should be longer and more complete	8.57% 3	45.71% 16	11.43% 4	34.29% 12	0.00% 0	35	2.71
I generally used all the examples and would appreciate more	8.33% 3	38.89% 14	36.11% 13	13.89% 5	2.78% 1	36	2.64
I also used a "regular" physics textbook.	54.05% 20	29.73% 11	8.11% 3	8.11% 3	0.00% 0	37	1.70



### Q9 Maybe you took a hard copy. Which best describes your thoughts?

Answered: 37 Skipped: 0



ANSWER CHOICES	RESPONSES
I never took a hardcopy	16.22% 6
I took a hard copy but usually just looked it online anyway	10.81% 4
I appreciated receiving the chapters one at a time because they were thin and I could carry them around with me,	56.76% 21
I think it would be better to receive the entire text on the first day of class.	16.22% 6
<b>TOTAL</b>	<b>37</b>

**Q10 Please offer any other thoughts / requests / advice with respect to the textbook.**

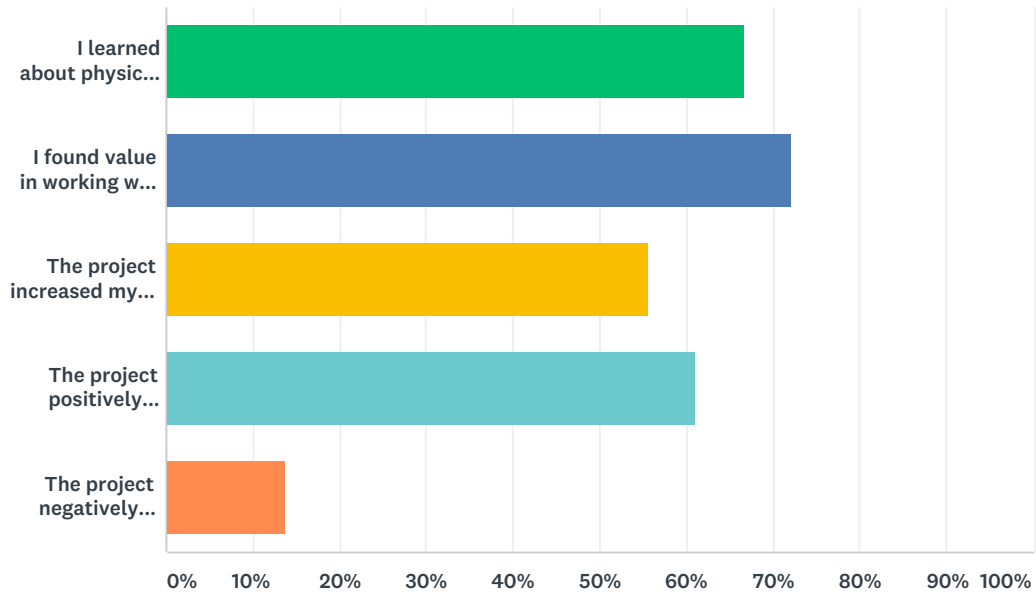
Answered: 23 Skipped: 14

**Q11 Few students came to office hours. Please explain why you did/didn't come and what this was like for you.**

Answered: 33 Skipped: 4

Q12 With regard to the two projects we did, please check all that apply:

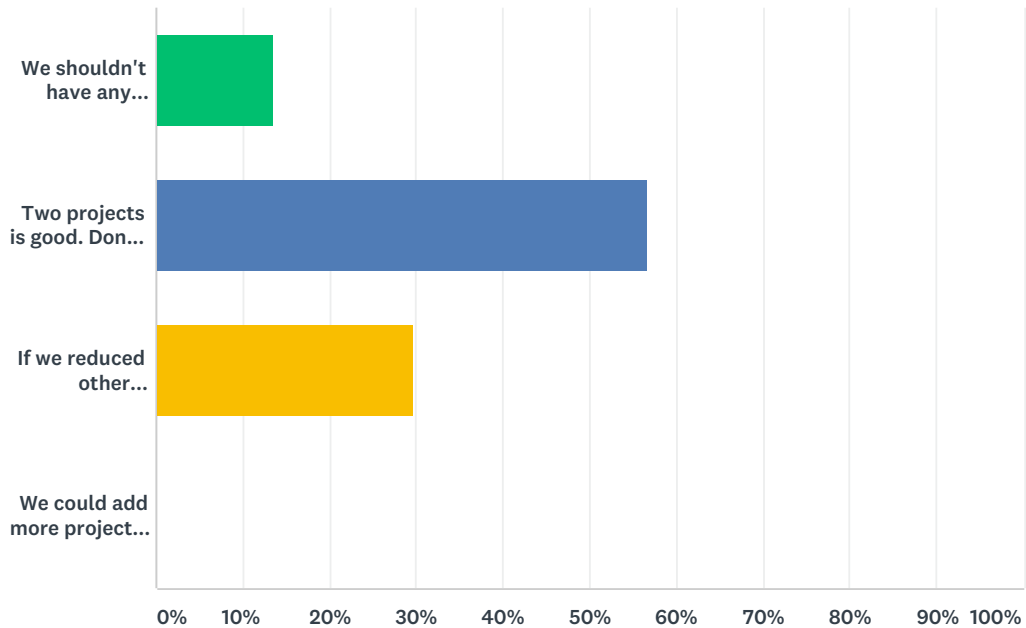
Answered: 36 Skipped: 1



ANSWER CHOICES	RESPONSES	
I learned about physics doing the project.	66.67%	24
I found value in working with the group.	72.22%	26
The project increased my stress.	55.56%	20
The project positively impacted my learning experience.	61.11%	22
The project negatively impacted my learning experience.	13.89%	5
Total Respondents: 36		

Q13 I've thought about making this class more project based. For instance we could have 4 projects: at the end of weeks 2, 4, 6, and 8. Then I would allow more class time for the projects. What do you think?

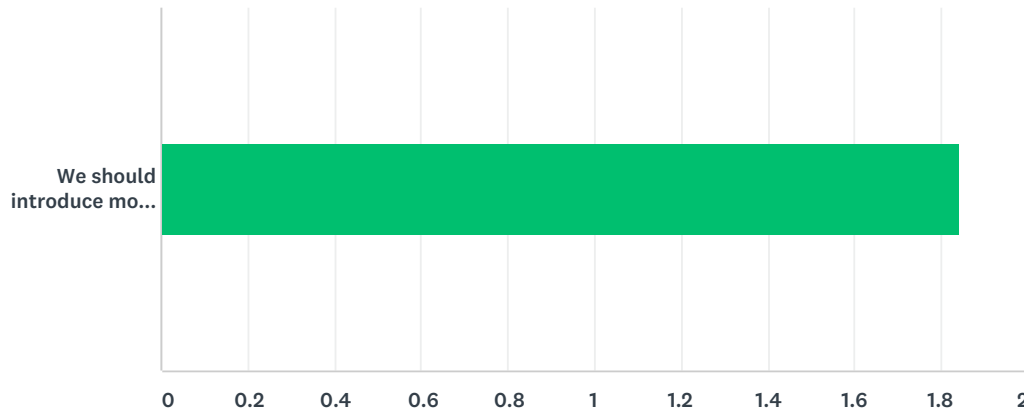
Answered: 37 Skipped: 0



ANSWER CHOICES	RESPONSES	
We shouldn't have any projects. Instead we should spend more time on homework problems.	13.51%	5
Two projects is good. Don't change it.	56.76%	21
If we reduced other requirements to make time for more projects, then it would be worth trying.	29.73%	11
We could add more projects without reducing other requirements.	0.00%	0
<b>TOTAL</b>		<b>37</b>

Q14 It seems to me that we learn best through activities, such as the precession exercise we did with the bicycle wheels. Please rate your response.

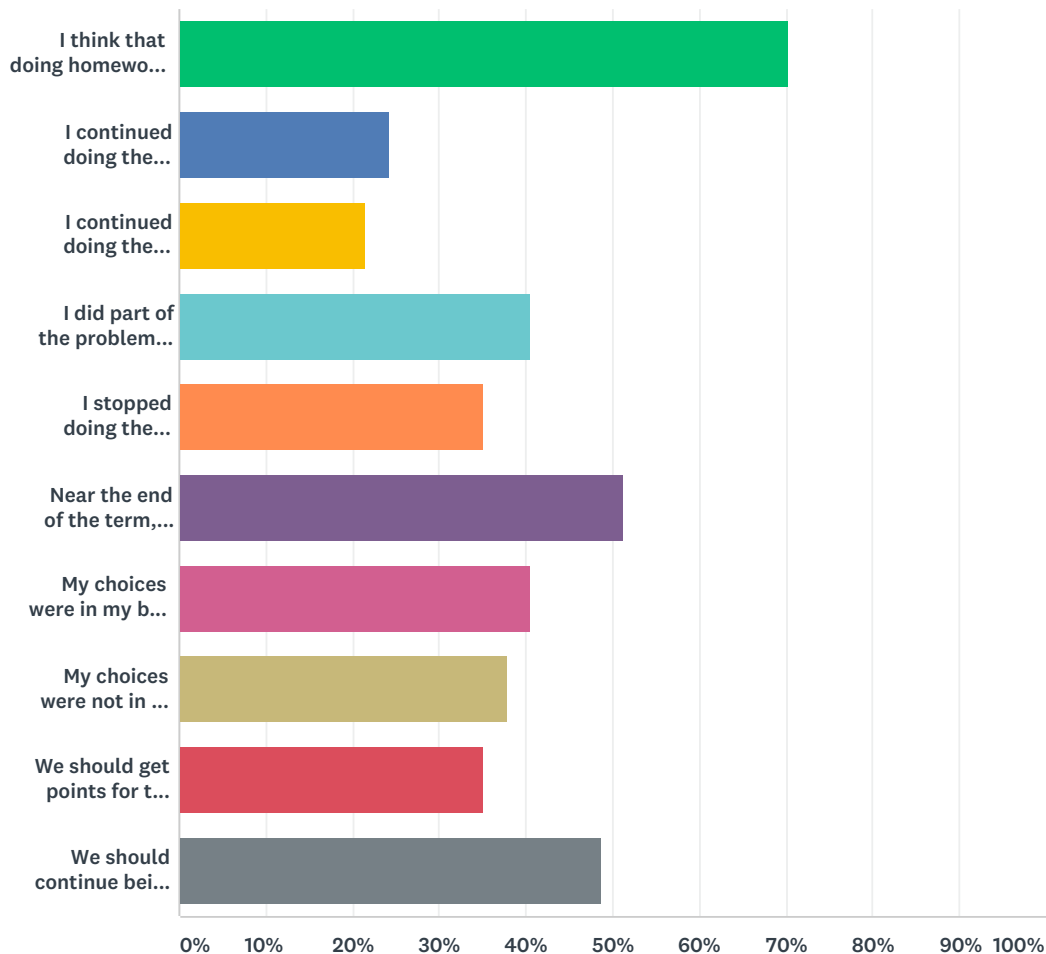
Answered: 32 Skipped: 5



	STRONGLY AGREE	AGREE	NEUTRAL	DISAGREE	STRONGLY DISAGREE	TOTAL	WEIGHTED AVERAGE
We should introduce more activities for learning and spend less time on group problem solving, lectures, and discussions.	40.63% 13	37.50% 12	18.75% 6	3.13% 1	0.00% 0	32	1.84

### Q15 This group of students handed in very little homework and it decreased considerably during the quarter. Check all that apply.

Answered: 37 Skipped: 0



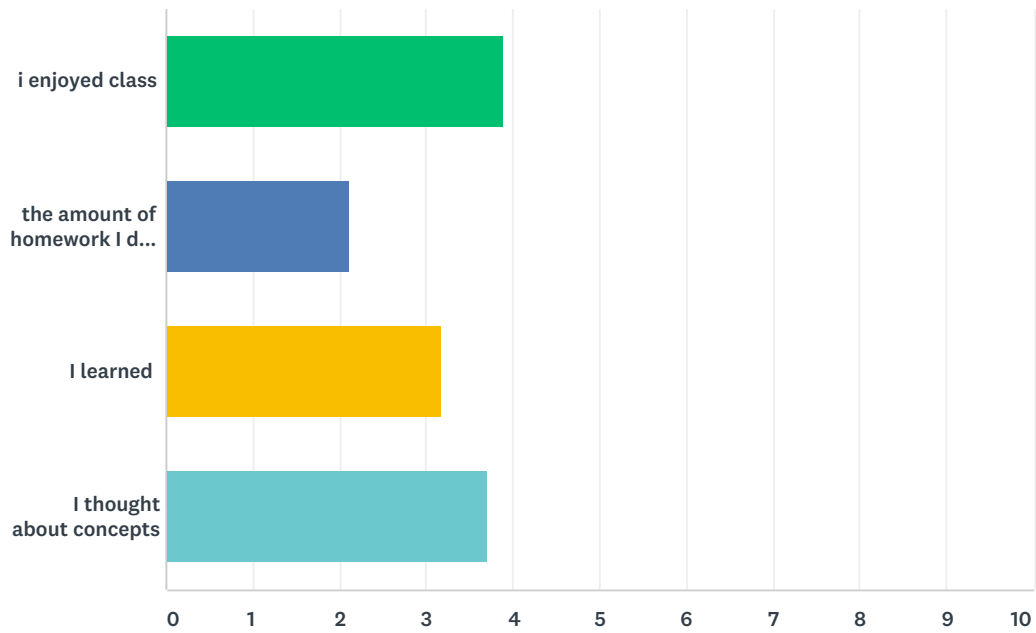
ANSWER CHOICES	RESPONSES	
I think that doing homework is important in order to learn the material and do well on the exams.	70.27%	26
I continued doing the problem sets on time, but didn't hand them in.	24.32%	9
I continued doing the problem sets after the solutions were out and finished them.	21.62%	8
I did part of the problem sets, choosing the problems I thought were important.	40.54%	15
I stopped doing the problem sets altogether.	35.14%	13
Near the end of the term, I got behind in everything and spent less time on physics.	51.35%	19
My choices were in my best interest.	40.54%	15
My choices were not in my best interest.	37.84%	14
We should get points for the problem sets to incentivize doing them.	35.14%	13
We should continue being graded only on Exams and the projects so everyone can find their preferred method of learning.	48.65%	18

Total Respondents: 37



## Q16 Homework and attendance was not calculated into your final grade. Because of this,

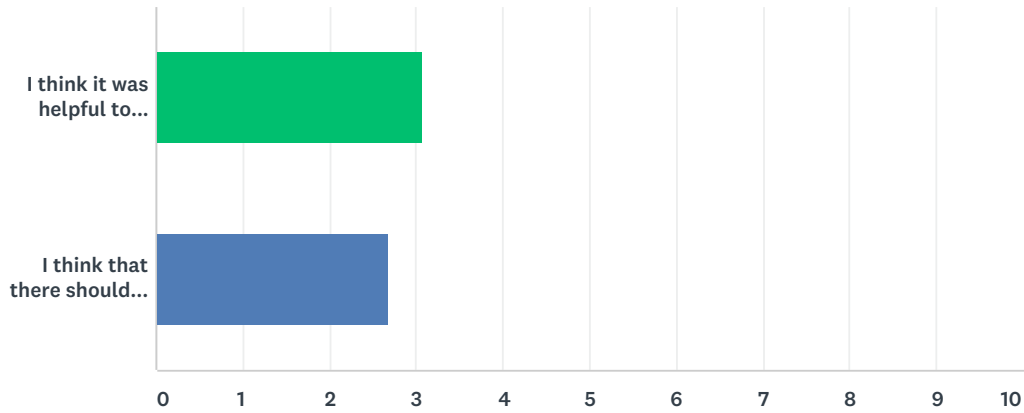
Answered: 37 Skipped: 0



	WAY LESS	LESS	THE SAME	A LITTLE MORE	WAY MORE	TOTAL	WEIGHTED AVERAGE
i enjoyed class	2.70% 1	5.41% 2	27.03% 10	29.73% 11	35.14% 13	37	3.89
the amount of homework I did was	29.73% 11	32.43% 12	35.14% 13	2.70% 1	0.00% 0	37	2.11
I learned	2.70% 1	18.92% 7	48.65% 18	16.22% 6	13.51% 5	37	3.19
I thought about concepts	0.00% 0	10.81% 4	32.43% 12	32.43% 12	24.32% 9	37	3.70

### Q17 After midterm #1, we switched group partners. Please indicate your response below.

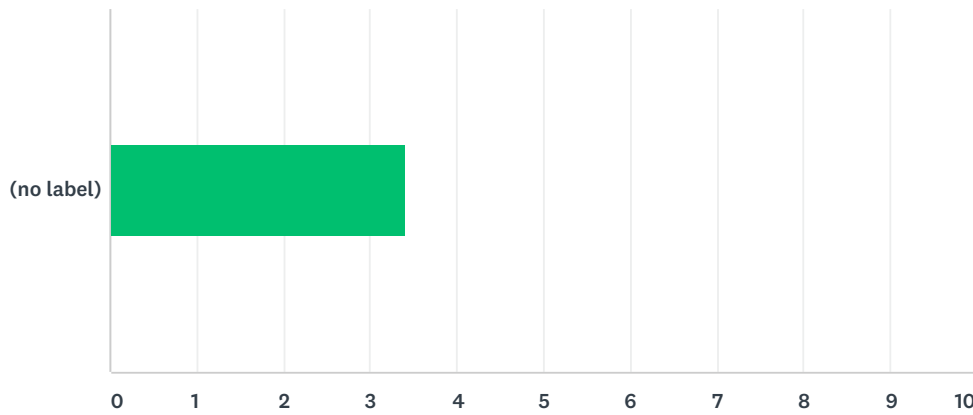
Answered: 37 Skipped: 0



	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE	TOTAL	WEIGHTED AVERAGE
I think it was helpful to switch groups	13.51% 5	24.32% 9	21.62% 8	21.62% 8	18.92% 7	37	3.08
I think that there should be another group switch after the second midterm too.	16.67% 6	30.56% 11	30.56% 11	13.89% 5	8.33% 3	36	2.67

### Q18 Compared to how much I thought I was going to enjoy learning physics on the first day of class, I actually enjoyed it...

Answered: 37 Skipped: 0



	WAY LESS	A LITTLE LESS	THE SAME	A LITTLE MORE	WAY MORE	TOTAL	WEIGHTED AVERAGE
(no label)	2.70%	18.92%	29.73%	32.43%	16.22%	37	3.41
	1	7	11	12	6		

## Q19 Enter any comments about the class

Answered: 20 Skipped: 17