

# PX145:Physics Foundations

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## Module questionnaire 20/21 (PX145)

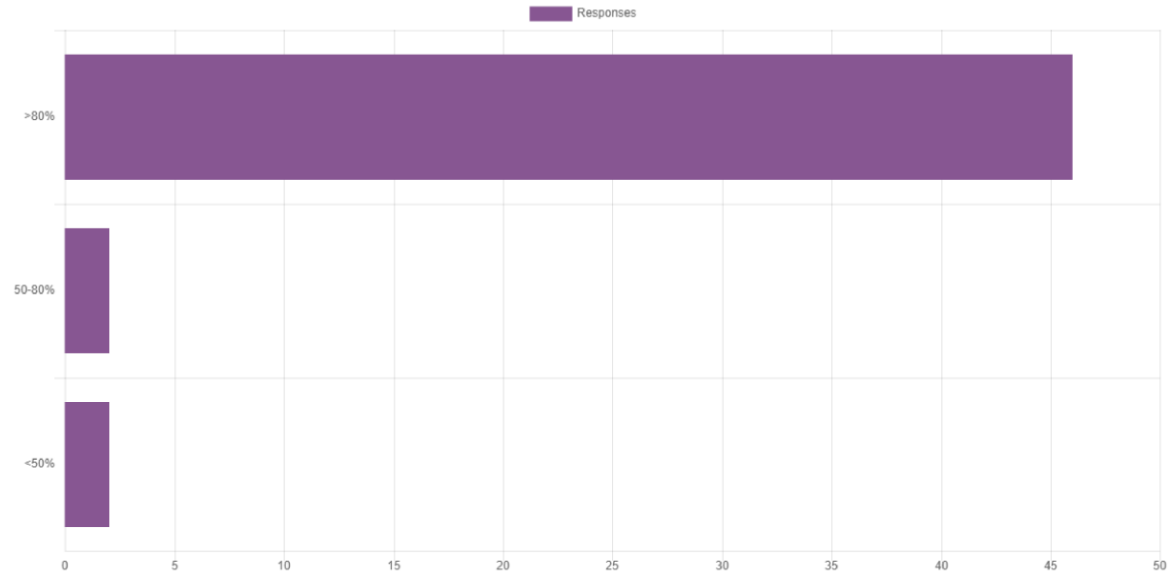
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Submitted answers: 50 /220

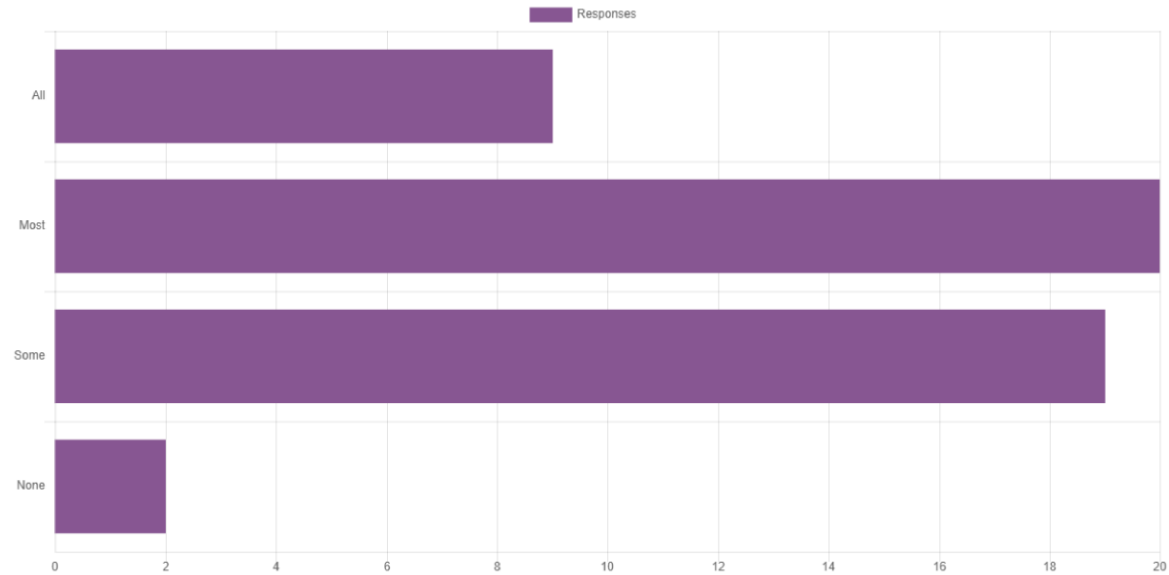
Questions: 21

(Q1) I watched or read through the notes of (...?) of the online lecture material



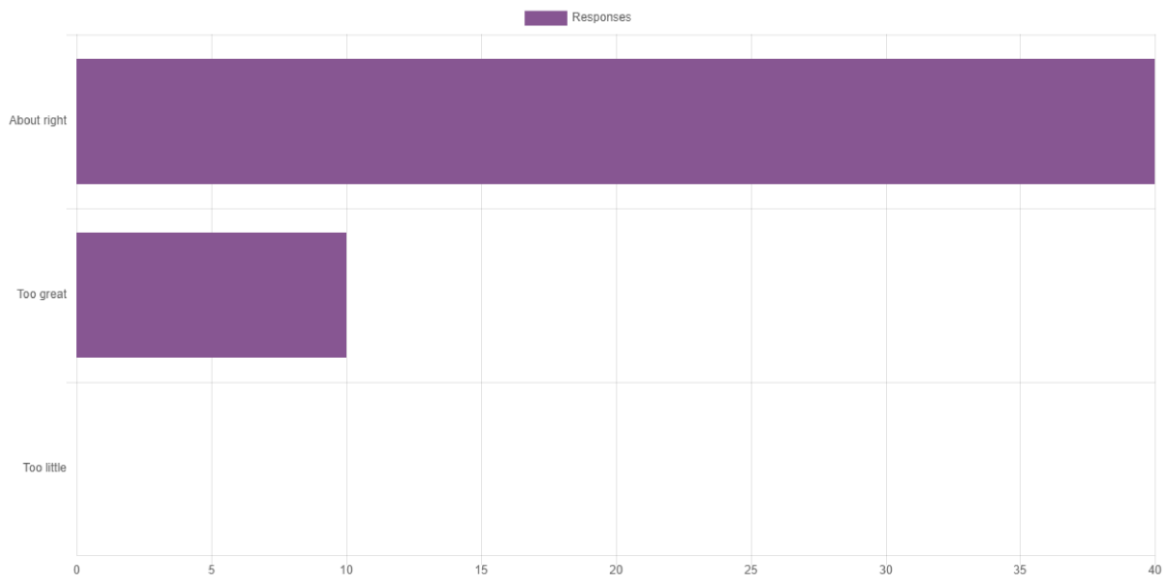
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(Q2) I attended (...?) of the Live events for this module



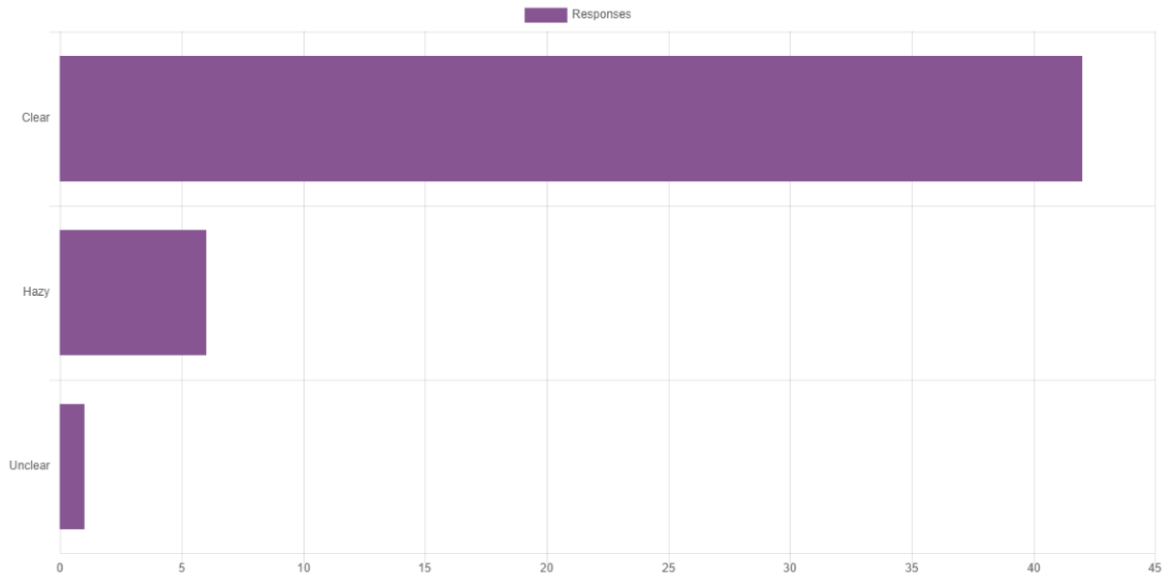
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(Q3) The quantity of material was



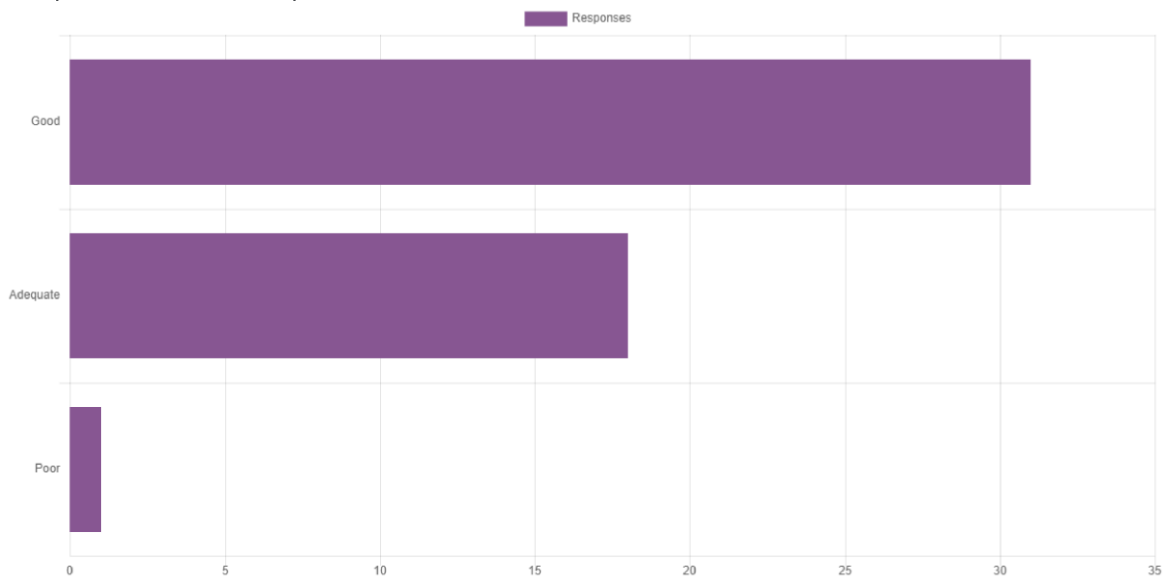
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**(Q4) By the end of the module its purpose and direction were**



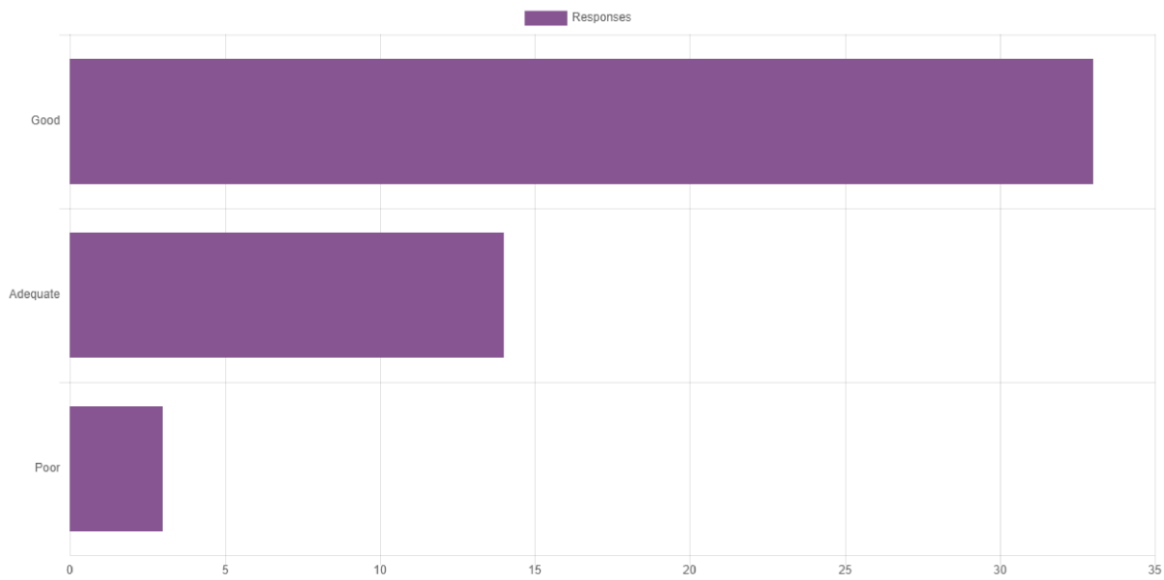
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**(Q5) Explanation of new terms and concepts was**



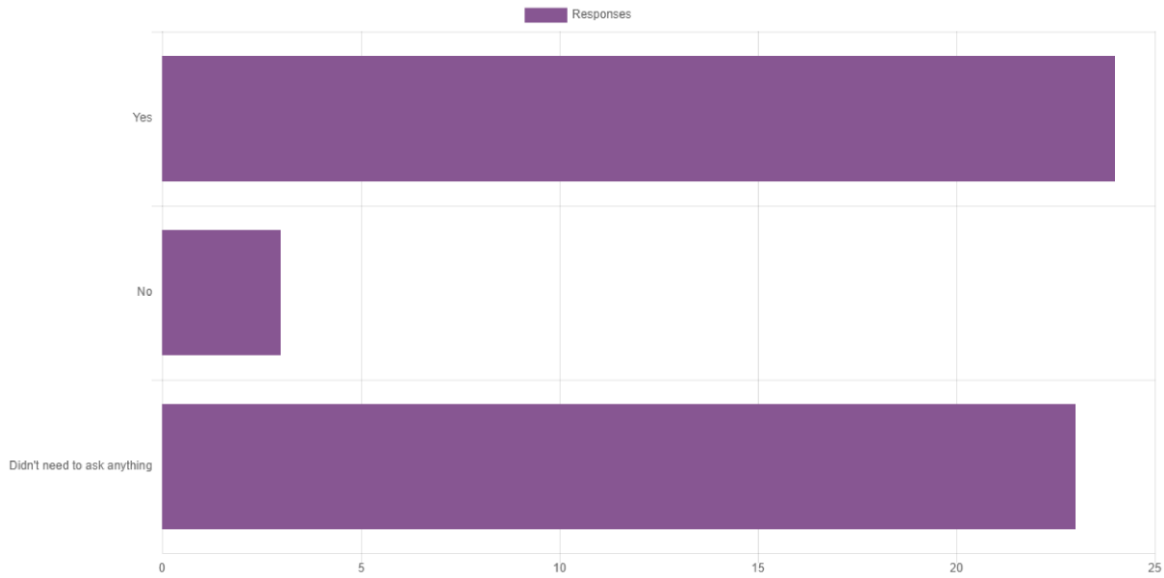
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**(Q6) I have a (...?) set of notes**



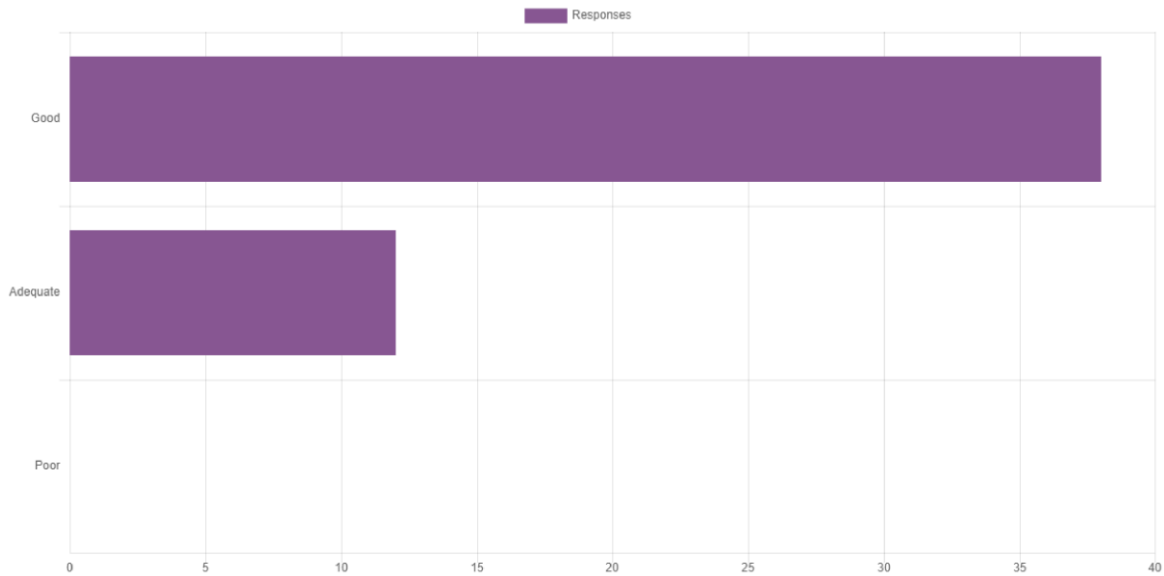
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**(Q7) I felt able to ask the module lecturer questions and get useful answers**



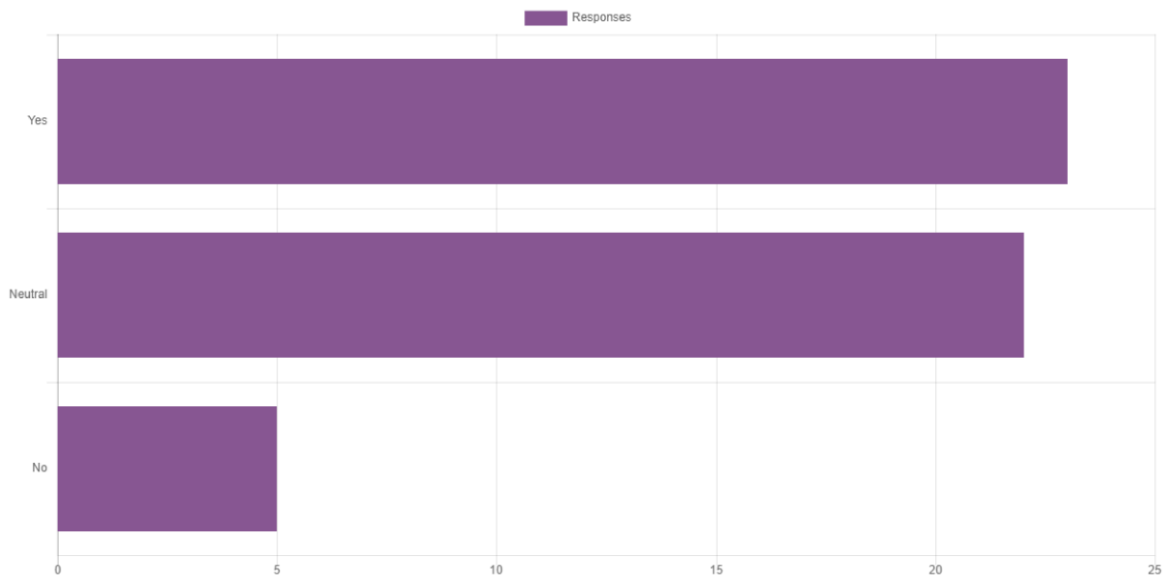
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**(Q8) Promptness of feedback on submitted coursework was**



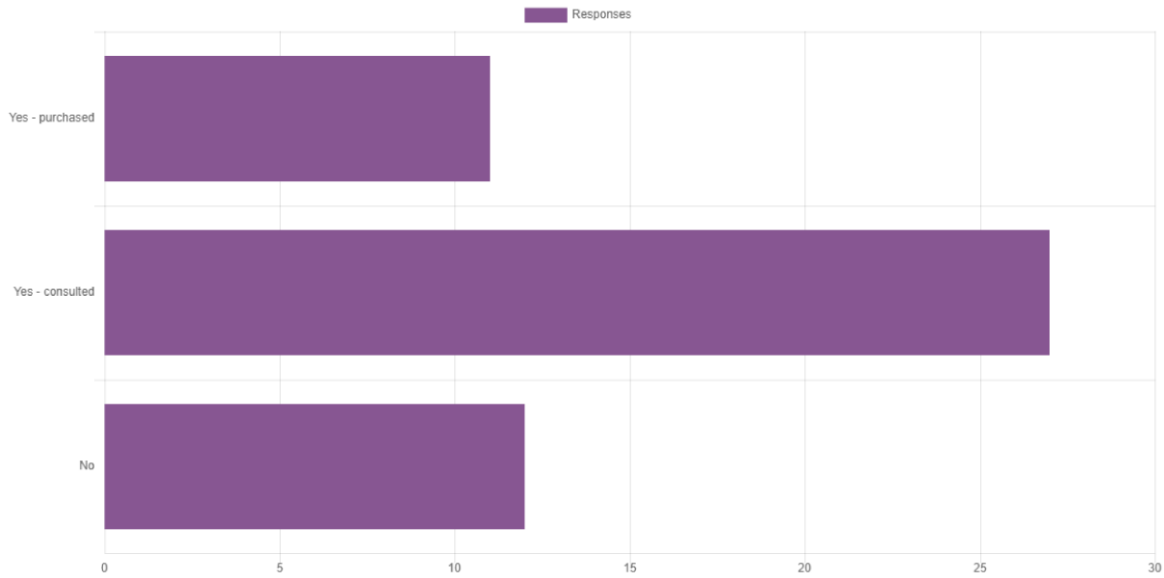
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**(Q9) Would you like a course taking this subject further ?**



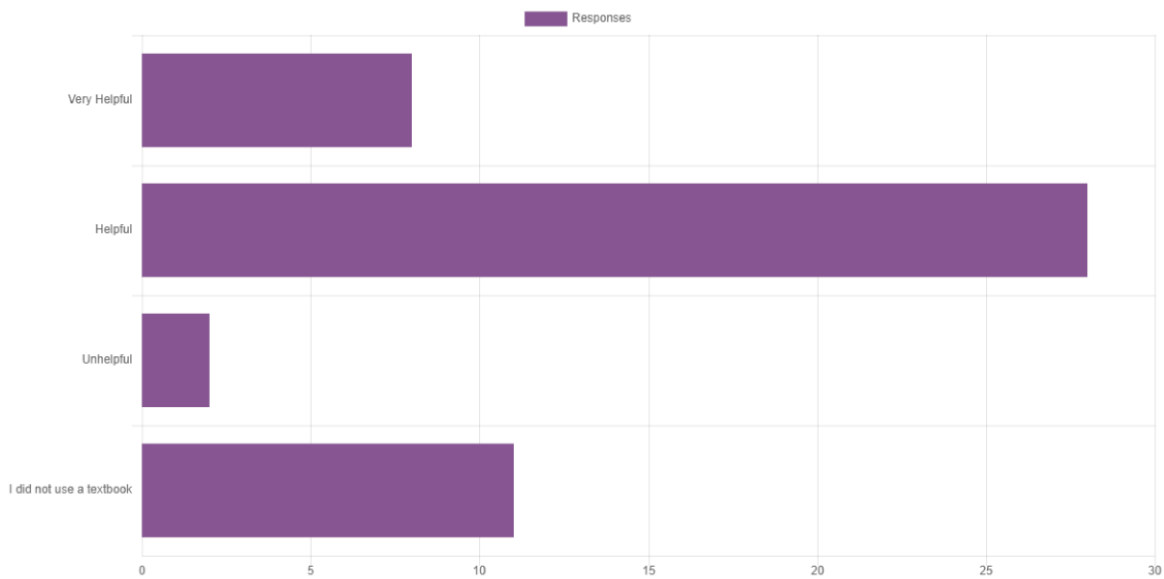
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**(Q10) Did you use any of the recommended/suggested textbooks?**



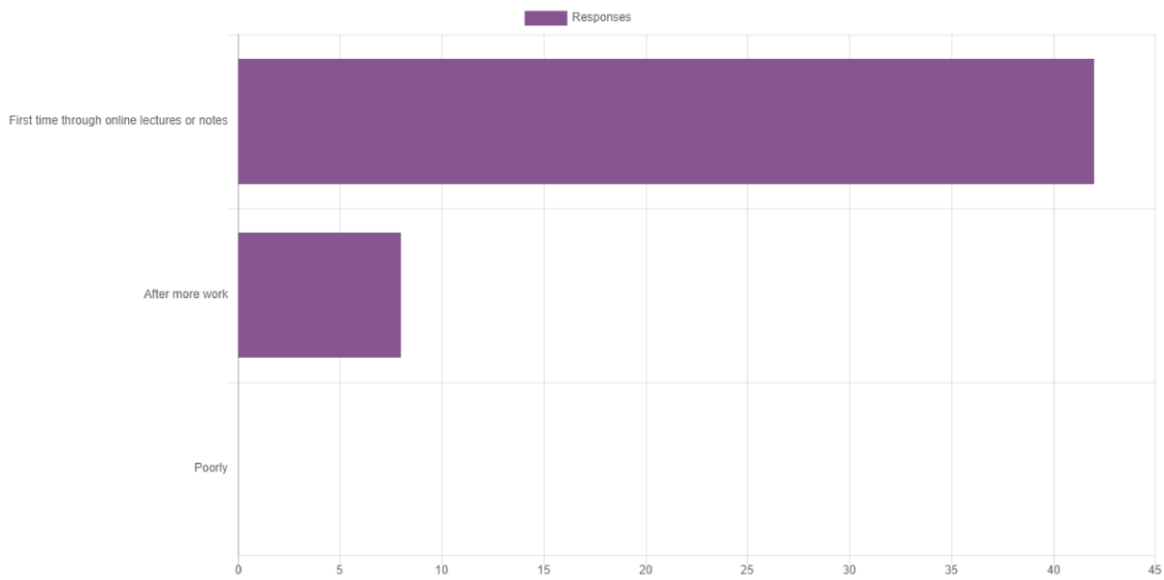
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**(Q11) I found the textbook(s) used to be**



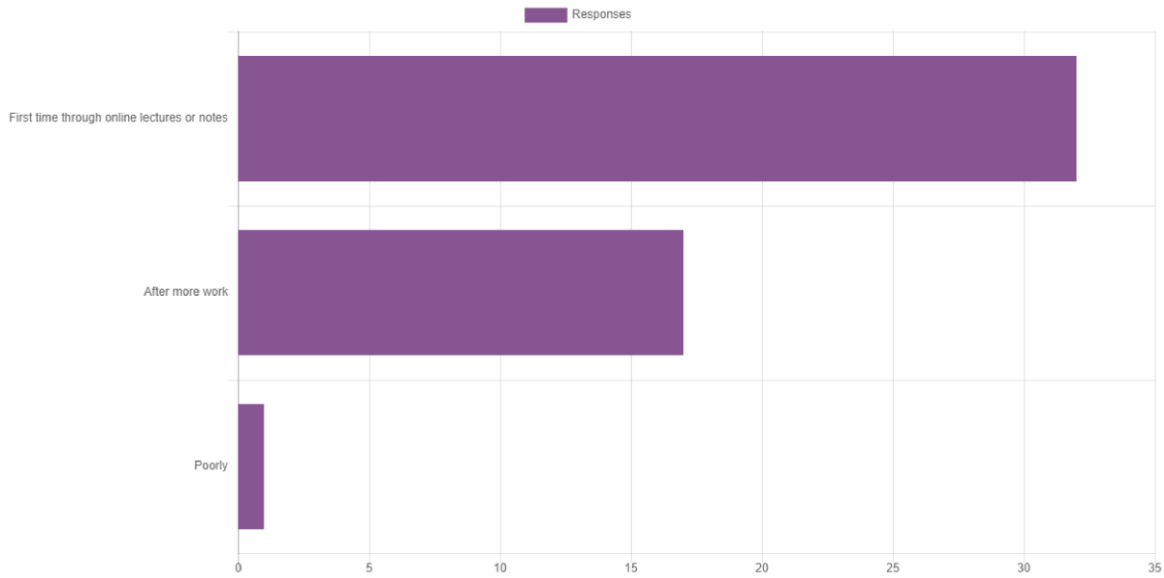
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**(A) Dimensional analysis**



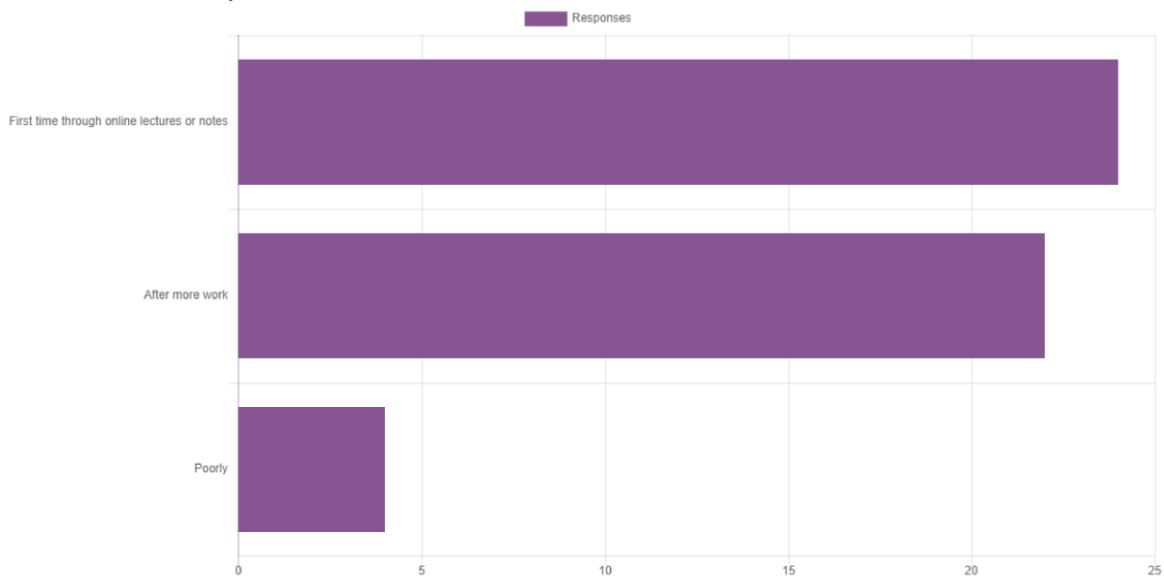
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**(B) Heat and temperature**



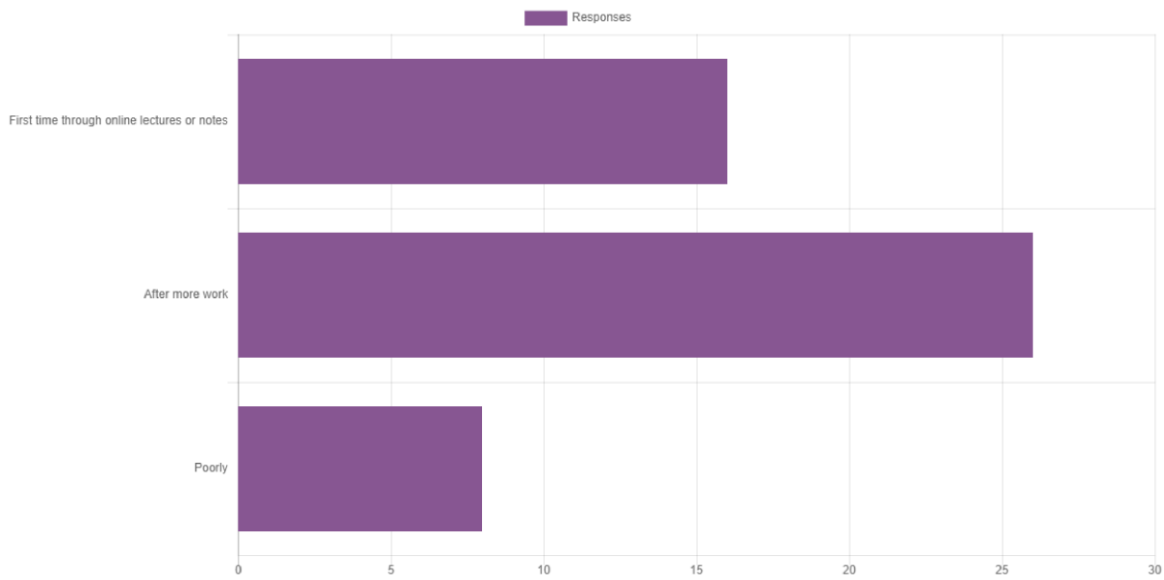
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**(C) 1st and 2nd laws of thermodynamics**



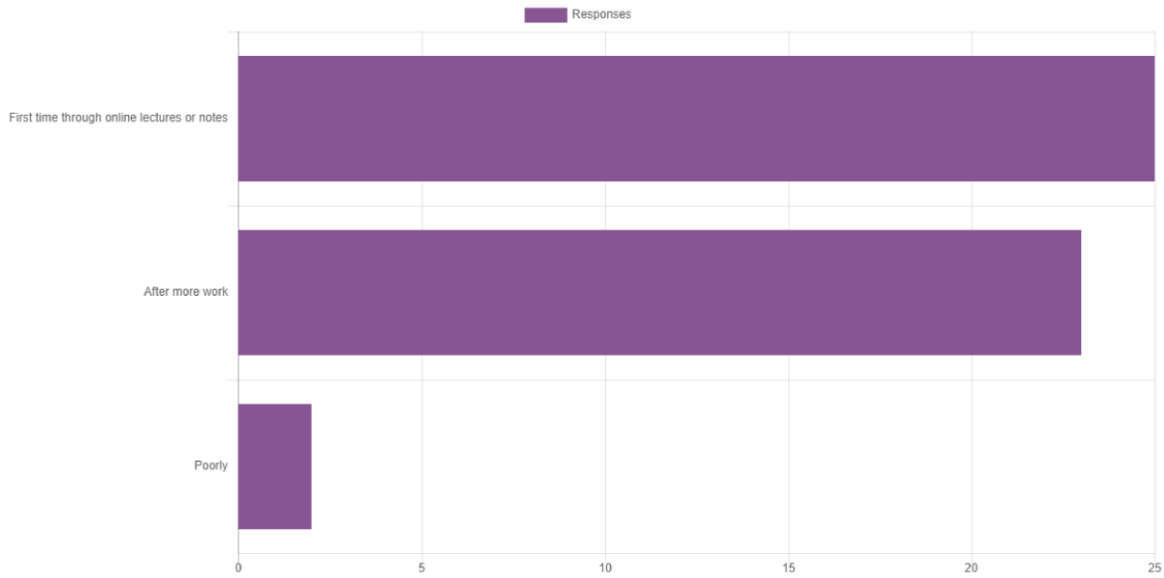
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**(D) 3rd Law of thermodynamics and entropy**



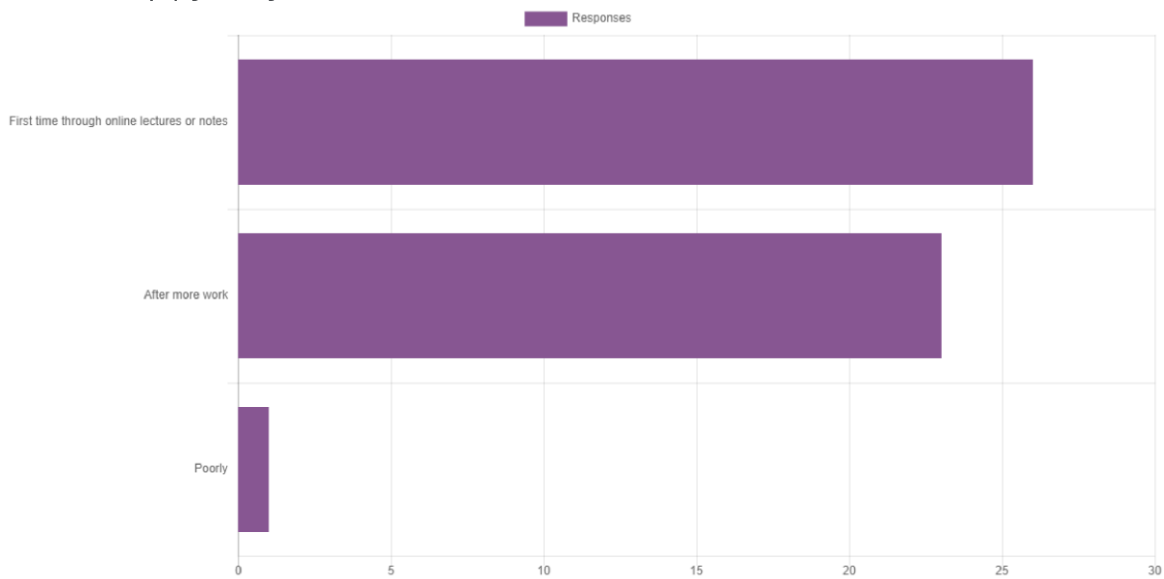
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**(E) Wave properties and effects of boundaries**



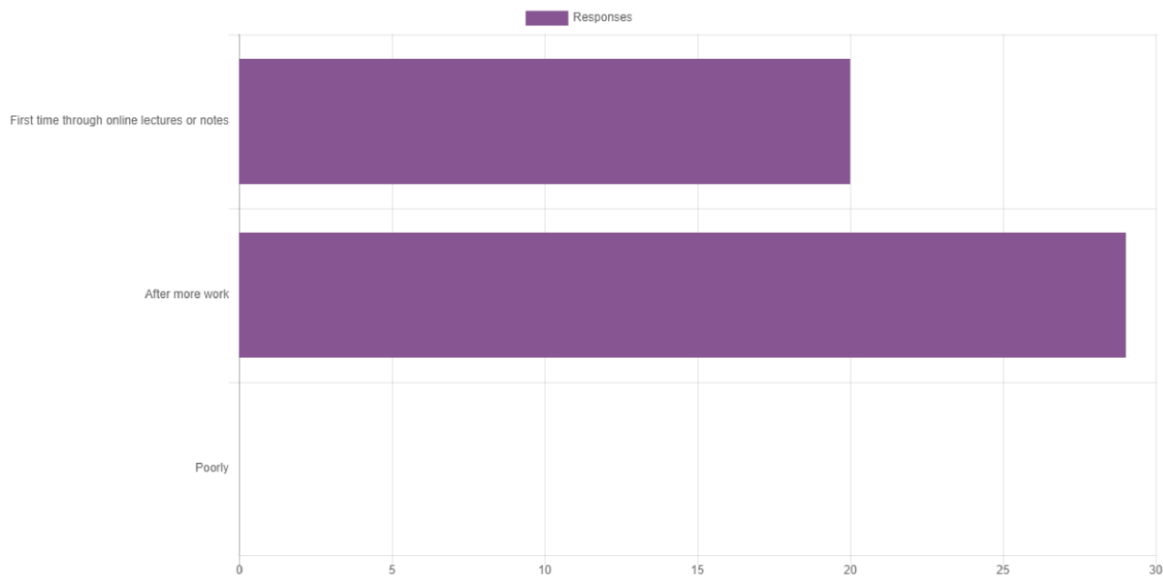
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**(F) Wave nature and propagation of light**



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**(G) Wave interference phenomena**



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**The best features of this module were:**

- Dimensional analysis
  - Pre-recorded material split into small chunks.
  - The recorded lecture notes were done very well, and I felt that the material was very clearly explained.
- It was nice to know that we had support available in the Q&As and the office hour.
- Enjoyed dimensional analysis.
- Problem classes were very helpful.
- thermodynamics
  - I think the lectures explained everything well, and the worked examples were also a really helpful addition.
  - The pre-recorded lectures.
  - The Quality of the Lectures
  - Waves was the best part. It was more complex but there were more aspects during physics. I enjoyed the more mathematical approach of waves in comparison to thermodynamics.
  - More mathematical approach to the thermal physics that had already been seen at A level.
  - New content
  - Clear lectures, any questions were answered well
  - Very good structure
  - Thermodynamics, and dimensional analysis, first part of waves.
  - waves
  - Getting to discuss problems with the problems class tutors. Prof duffy's clear explanations
  - The topics were well explained despite being challenging
  - I really enjoyed the thermodynamics section, and I have a much better understanding of waves than I did after A level. I like how the moodle page is really clearly laid out so that I can find the exact video I need upon recapping the content.
  - Seeing the material taught in a different way.
  - Using demonstrations and numerical examples were the most beneficial for me, however i felt the notes were too general and ended up confusing me even more. I therefore ended up using different sources to learn a majority of this course

**Any particular aspects/items needing improvement (and suggestions how):**

- everything thermal
- It would be helpful if there was a set of pdf lecture notes that was uploaded as the course progressed in addition to the lecturers notes that highlight the key items and equations etc, similar to PX148.
- More heat pump and transfer co-efficient examples including entropy parts within the question.
- Work involving Groups of students interacting in order to develop understanding
- Typed up lecture notes rather than hand written (or as well as?) Sometimes they are hard to read so have to watch the video again to see what was said.
- More specific examples, and clearer annotation of equations, symbols and diagrams
- I would prefer the notes to be recorded, with all information labeled clearly. Sometimes I feel, the situation we are considering is not fully specified, so this leaves areas of confusion. I would also like a full list of equations used, at the end of every lecture, in order to compare, and more better understand the various equations, like say in YF, in the chapter review.
- Last few sections on waves.
- It would be useful if the mastering physics quizzes had the same deadline as the problem sheets so that there would be more flexibility about when to do them. Sometimes I find the volume of lectures to be overwhelming and could use more than 2 days to go through them. With all the modules even if a lecture is half an hour it takes at least 45 mins to actually complete it so the amount of lectures really starts to stack up.
- Thermodynamics could be really confusing at times especially with all of the different formula. A sheet with all the key formula on would be quite useful
- sometimes it felt like the main focus of the lectures were very disconnected from the problem sheets/mastering physics
- The live sessions at the start had some issues due to inexperience of using of Teams, but it picked up towards the end.
- More detailed explanation/steps in between explanations (often skips over some explanations, so I have to google some aspects of the course


**Any other comments:**

- Adapted well to the circumstances.
- It was a great module.
- I think the module was a great introduction to university physics. However at times I felt like new terms were a bit 'thrown' at us, like the bulk modulus and the young modulus. I still have to go over the thermal physics part of the course with the Y&F textbook, but overall I am satisfied with Physics Foundations. Kind regards
- I preferred PX148 because more of the concepts were derived mathematically, whereas in PX145 there were more concepts that were explained in words or with a sketch. Particularly in weeks 9 and 10 it felt as though we kept stating results without having such a clear understanding of why they come about. This is why I enjoyed these last 2 weeks less than the rest of the module. Although, from what I understand we aren't yet at the stage where we can derive those equations describing wave phenomena.

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