

EF300 Logbook –

25/10/23

- Got in contact with the two allocated S5 pupils.
- Updated my pupils on my PVG situation as there is a bit of a delay.

14/11/23

- Received PVG confirmation and contacted pupils, confirming our first session.
- I noted that they have their Physics prelim on the 7th of December.
- Confirmed my PVG check with my outreach even partner, we have decided to go to his former school, Caldervale High School.

23/11/23

- Had our first meeting on teams.
- Focused on building rapport with them, introducing myself and getting to know them.
- Discussed aims and goals, what they wish to achieve from the program, and I explained what I can provide.
- Both study at the same school and want to enter the Aero-Mechanical course at Strathclyde. Both seem keen and motivated. Andrew was a bit chattier than Hayden, but they were both very pleasant.
- Asked them at the end of the session on the topics they would like to work on next time and made a list.

29/11/23

- Prepared material based on the topics they selected: (Diffraction patterns, Interference, Photoelectric effect).
- Looked through the SQA Higher Physics syllabus and noted down the knowledge expected.
- Went through past papers using the official SQA site and looked through mark schemes, noting what is expected for the topics.
- Also used the Myplace videos as guidance.
- Ended up preparing past paper questions on the topics and going into deeper explanation if necessary on Microsoft whiteboard, allowing them to collaborate too.
- The session went well, covering a range of topics, including some that Andrew provided.
- Andrew seemed to be a bit quicker and more vocal on the questions.
- Whiteboard worked well, was able to write with enough speed and accuracy using a mouse.

01/12/23

- Had another session to prepare them for their prelims.

- I gathered past paper questions again using the SQA's past papers, snipping out questions and putting it into a PDF.
- Covered interference, band theory, and oscilloscope reading.
- I prepared explanations and diagrams in my notebook just as backup.
- I did some reading on 'Marshallsay Physics' webpage to prepare and familiarise myself with some of the concepts.
- Session was good; Andrew was again quick to answer and much more vocal than Hayden.
- Once again used past paper as resources, I also linked them "Mr Mallon's Physics Channel", in case they were stuck on some past paper questions and needing help.
- Provided them with exam techniques and tips, including flicking through the paper at the start to gauge the number of questions there are and to have a better sense of time. Talked a bit about the mark schemes and what examiners are looking for in theory questions.
- I tried spending a bit more attention on Hayden and encouraging him to answer first, a bit low in confidence at times but is still trying!
- Communicated with them that I was away for Christmas and would be unable to host meetings, however, encouraged them to send in any questions and I would reply as soon as possible.
- Decided to continue with the combination of Microsoft Whiteboard and drawing with a mouse, as it allowed us to collaborate in real time and the mouse provided good accuracy and speed.

17/12/23

- Met with Rafiu and discussed ideas for our outreach event. Looked into different activities and shortlisted a few ideas, including:
 - Paper planes
 - Bridge building
 - Spaghetti Tower
 - Marble race

15/02/24

- Had to move out in January, subsequently not having WiFi for over a month. Also caught the flu which meant it was hard to do my part time job and the engineering scholars' program.
- Continued tutoring and decided to split the sessions, based on observations made in the previous sessions.
- Prepared content individually, based on the content that they wanted to work on.
 - Andrew wanted to work on semiconductors and p-n junctions.
 - Hayden wanted to work on p-n junctions and current, power and resistance.
- Used the resource Helen posted in the forum, which made looking for past papers easier.
- Session with Andrew was smooth, I explained the concept of p-n junctions and we tackled a few past paper questions that required deep knowledge of the topic.
- Andrew's feedback was that he gained a deeper understanding of the topics and gained confidence.

- Discussed and answers questions regarding university, as well as introducing the course and the various modules that are planned for each year of study.
- Talked a bit about the facilities at the university, and how studying and university compared to school is a big change.

16/02/24

- Had a solo session with Hayden, which was prepared using the 'Mr Davie' past paper document.
- Snipped up a bunch of past paper questions and discussed his thought process and answers when approaching the question.
- Hayden seemed a bit more comfortable in the solo session, probably due to less pressure. The additional attention made he was able to come out of his shell a bit more.
- Talked about the different courses within the Aero-Mechanical course, as I did with Andrew. Introduced some of the modules and how the topics they are doing in Higher Physics can help.
- Should maybe prepare some explanation diagrams as Hayden sometimes struggles with the basic conceptual understanding.
- Mentioned I am trying to get them spots for the offer holder day and confirmed Hayden's interest in attending.

21/02/24

- Had a meeting hosted by Gordon and Helen.
- Enjoyed hearing the experiences that different people had with tutoring.
- Got to know of an offer holder day event, which I am interested in and want to secure spots for my students as I am already planning for a meetup with them at the university.
- Got in contact with Helen to pass on some information about my students, to allow them to attend the offer holder day, without offers.
- Finalised our activity for the outreach event with Rafiu and focused our efforts on securing a date.

22/02/24

- Tutored Andrew individually, preparing material based on the topics he sent in the team's chat.
- As the old formula was working well, I prepared a bunch of past paper questions.
- Used some examples from 'Mr Smith's Physics' on Youtube to explain certain concepts, such as trailing forces and hinges.
- Mentioned to Andrew that I was trying to arrange for himself and Hayden to join the offer holder day activities hosted by the MAE department, confirming his interest.

06/03/24

- Received confirmation from Dr Gemma Houston that Andrew and Hayden could attend all the activities on the offer holder day.
- Messaged Andrew and Hayden on teams giving them the good news, as well as trying to organise a tutoring session with them.
- However, they both missed the message and replied a few days later. Came down with the flu by then and told them I was really sick and won't be able to tutor.

20/03/24

- Messaged them reminding them of the offer holder day event on the 23rd of March, as well as offering tutoring session again.
- They both replied to the messages regarding the offer holder day but didn't react to the tutoring session.
- I assume that they were working hard on their own and don't feel the need for tutoring at the moment.

23/03/24

- Met them for the offer holder day, they were both a bit late, so I ushered them in quickly and listened to the talk too. I then had to leave as they did the marble activity. I came back at the end to pick them up and brought them on a mini tour around the campus, taking them inside the library and showing them the gym facilities.
- They were both amazed and fascinated by the buildings, especially the library and gym. We had a good chat about university life and caught up on their academics. They both expressed that they had a lot going on, in terms of school and extracurricular activities so would get back to me if they needed any sessions moving forward.
- Really happy to have met them in person, the bond online did carry forward to the meeting in person, as it was a lovely time and was really nice seeing them.

17/03/24

- Conducted the outreach event at Caldervale High School, to a session of 20 S1 students.
- We arrived 30 minutes early to set up the activities and slides.
- The kids really enjoyed the activity, as they were very competitive and was trying a lot of different ideas.
- As I wrote on the outreach feedback form, we could've improved our timings as the activity took longer than expected, which meant we couldn't go through all of our slides as intended.
- Spent 30 minutes afterwards sweeping up the classroom, as there was spaghetti everywhere.
- Overall, the outreach event was a success, with the teacher wanting us to come back next year.

22/04/24

- Andrew wanted to have a session to go over some topics from their exam. I couldn't meet on the 22nd as I had an exam the next day, so I offered a timeslot the next day. However, he forgot about the meeting, which meant we had to reschedule it.

25/04/24

- We had the meeting at 7am, the morning of his exam. I offered to do it on Wednesday evening, however he was out at the cinema.
- I once again, prepared material based on the topics he wanted work with using the 'Mr Davie' past paper resource. I also looked over mark schemes and how marks are given in the papers, made notes of areas where it could be easy to drop easy marks.
- I emphasised on exam techniques and how to approach certain questions, with emphasis on how to maximise marks especially in theory questions.
- Andrew was nervous for the exam, so I tried to reassure him that he's done a lot of work leading up to this (he has) and he just has to put it together, and not overthink.
- Let Andrew know that I am going to be away for a bit before their Maths exam but will be back to tutor and will answer questions on the Teams channel if they post any.
- Andrew updated me after his exam, letting me know that 4 of the questions that I picked out ended up being on the exam, he was very happy with how the exam went.