

CAT 4 RESOURCE DEVELOPMENT

Group 4-005

Project Classify

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ABSTRACT

Project Classify creates study materials for students so as to aid them in their comprehension of certain topics through the use of mindmaps, videos as well as quizzes. Our learning package is engaging and our colourful mindmaps capture the students attention.

1. INTRODUCTION

1.1 Rationale

Students often find themselves struggling in Secondary Three due to longer school hours, CCA responsibilities and harder curriculum and thus may struggle to catch up with the class academically. These students may not have grasped the concepts taught in class due to the fast-paced environment in some classes. These students may end up taking their tests without understanding the concepts and possibly fail the test. They would also find themselves constantly running out of time due to lack of time management.

1.2 Objective

The objectives of Project Classify were to provide study materials for underachieving students And Teach them the importance as well as how to manage their time.

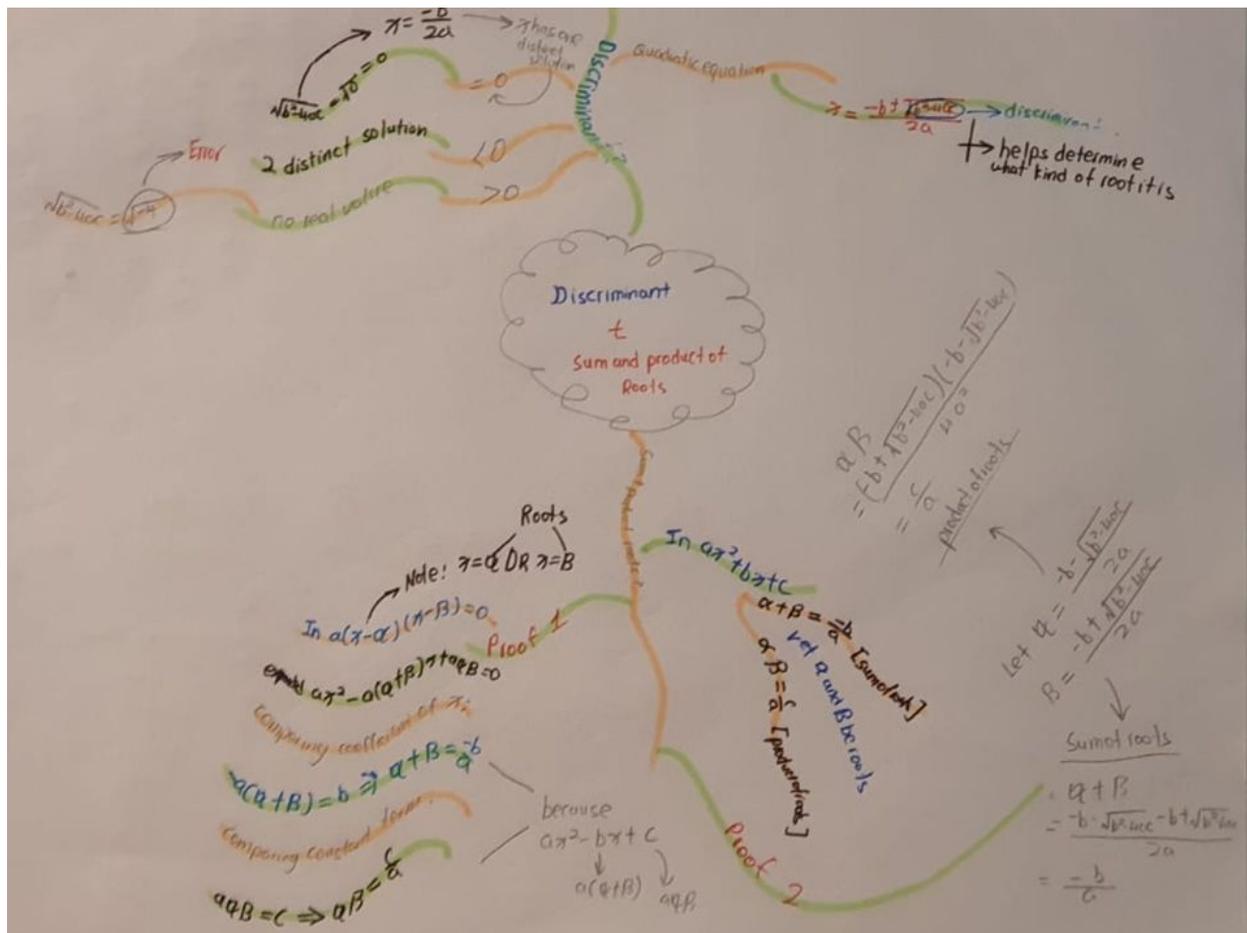
1.3 Target audience

The target audience is Secondary 3 students who are underachievers.

1.4 Resources

The resources created for this project comes in a Microsoft PowerPoint slide and each of them consists of a mind map based on the topic, some helpful videos and a Kahoot quiz at the end to test if the students understood the concepts. There are 15 such resources, 5 topics for each subjects. Other than that, we also created an additional

powerpoint resource educating students on the importance of time management.



An example of our mindmap

2. REVIEW

Notes provided by the school and internet had limited resources for the students to use to study. The notes were all over the place and it was difficult for Secondary Three students to view them all at once. Furthermore, the notes were very wordy and confusing for students. There could be more resources included and this could be arranged in a more concise and organized manner. Furthermore, it is evident through our survey results that many students do not know how to manage their time hence our resource for time management is vital. We were also inspired by the book "I am gifted

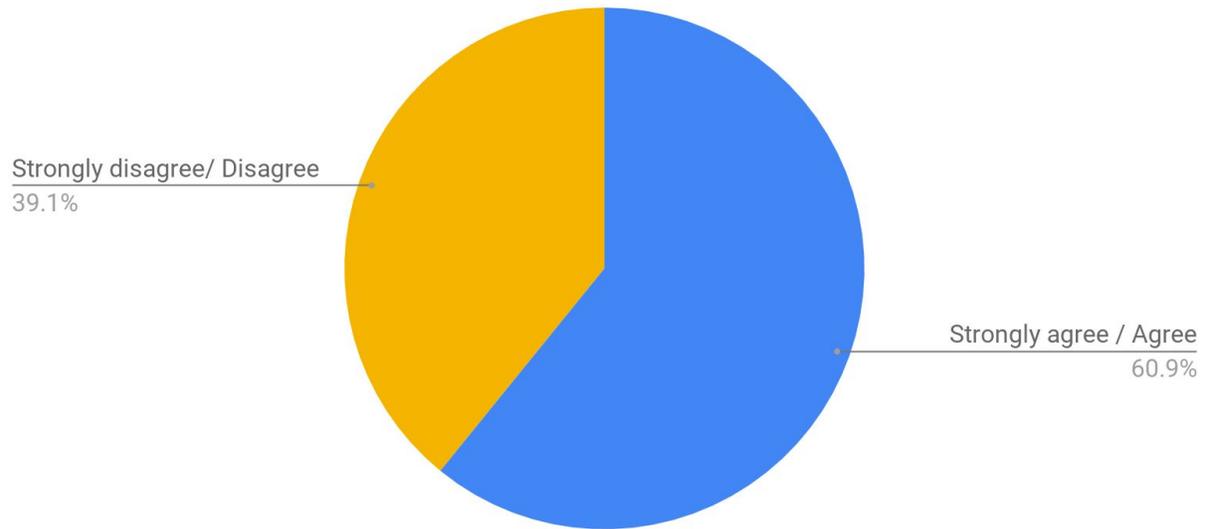
so are you” where Adam Khoo the author, discussed how he was able to focus on his studies and excel through the use of mindmaps.

3. METHODOLOGY

3.1 Needs Analysis

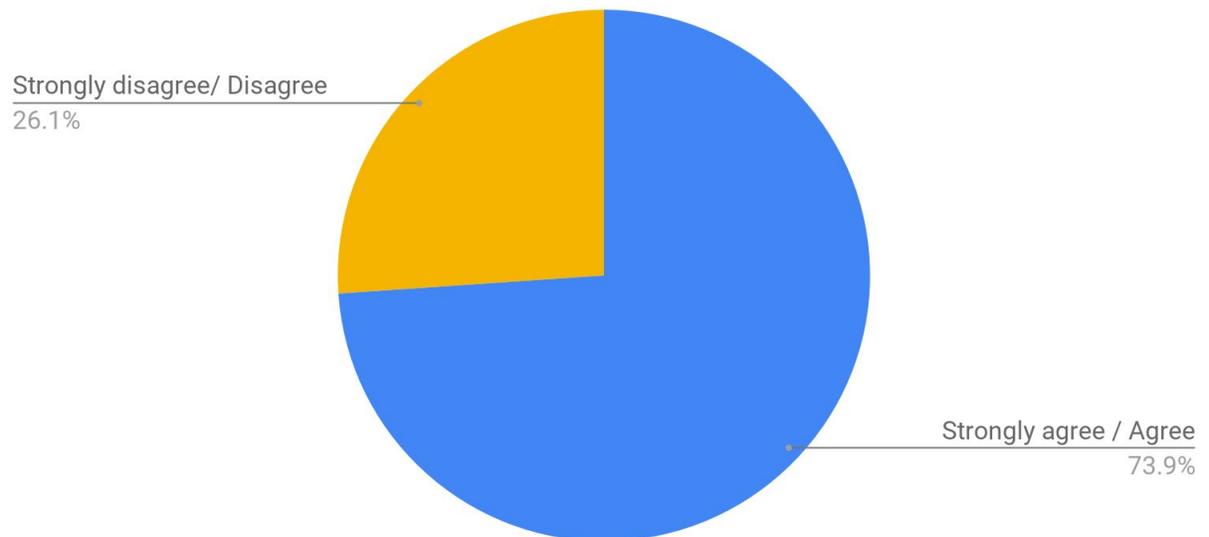
In the prelims round, we conducted a needs analysis on 20 participants to prove that our project was in need. We ask questions such as “I am not coping with my studies” where 60.9 percent of participants strongly agreed, 81 percent also felt that their friends are struggling in school, 60 percent are clueless on how to improve on their studies, 69 percent could not manage their time well , 65 percent felt subject content was too much and unorganized and finally 73.9 percent felt that their confidence were hurt when they did badly for their exams. Other than that, we also asked some structured questions for instance we asked them to share with us some troubles they faced in their studies and some said that they do not know how to manage their time well as well as the pace being too fast and find it hard to catch up. We also asked them to share how they manage their time and out of the response we got, one in three students replied that they do not manage their time well, finally we asked them to share some ways that they have tried to study and we found out that most of their ways were inefficient and hence proving that our project is necessary to aid them in their studies.

I am not coping with my studies



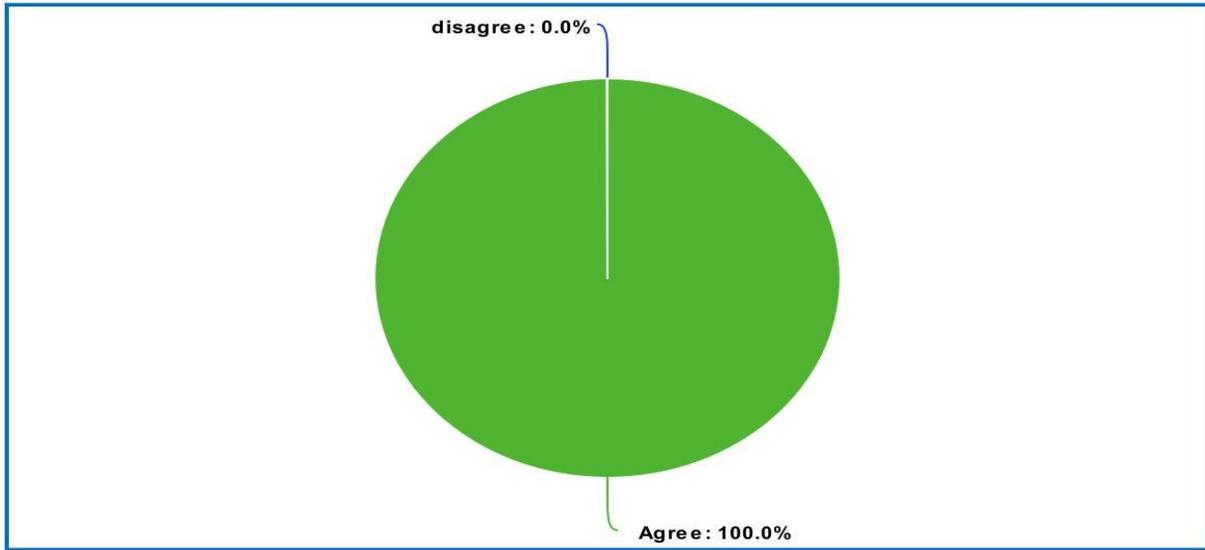
Results obtained when asked if they were coping with their studies

My confidence is hurt when I do poorly in exams



Majority felt that their confidence is hurt when they fail to perform academically

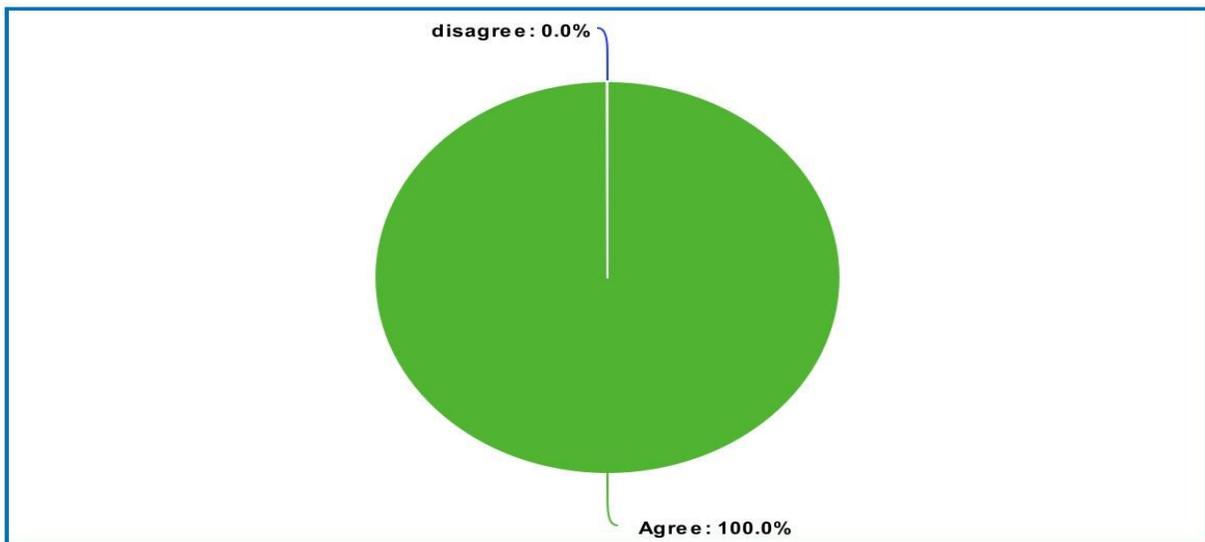
I find this resource helpful with my studies



Agree disagree

meta-chart.com

I have a deeper understanding on the topic through this resource

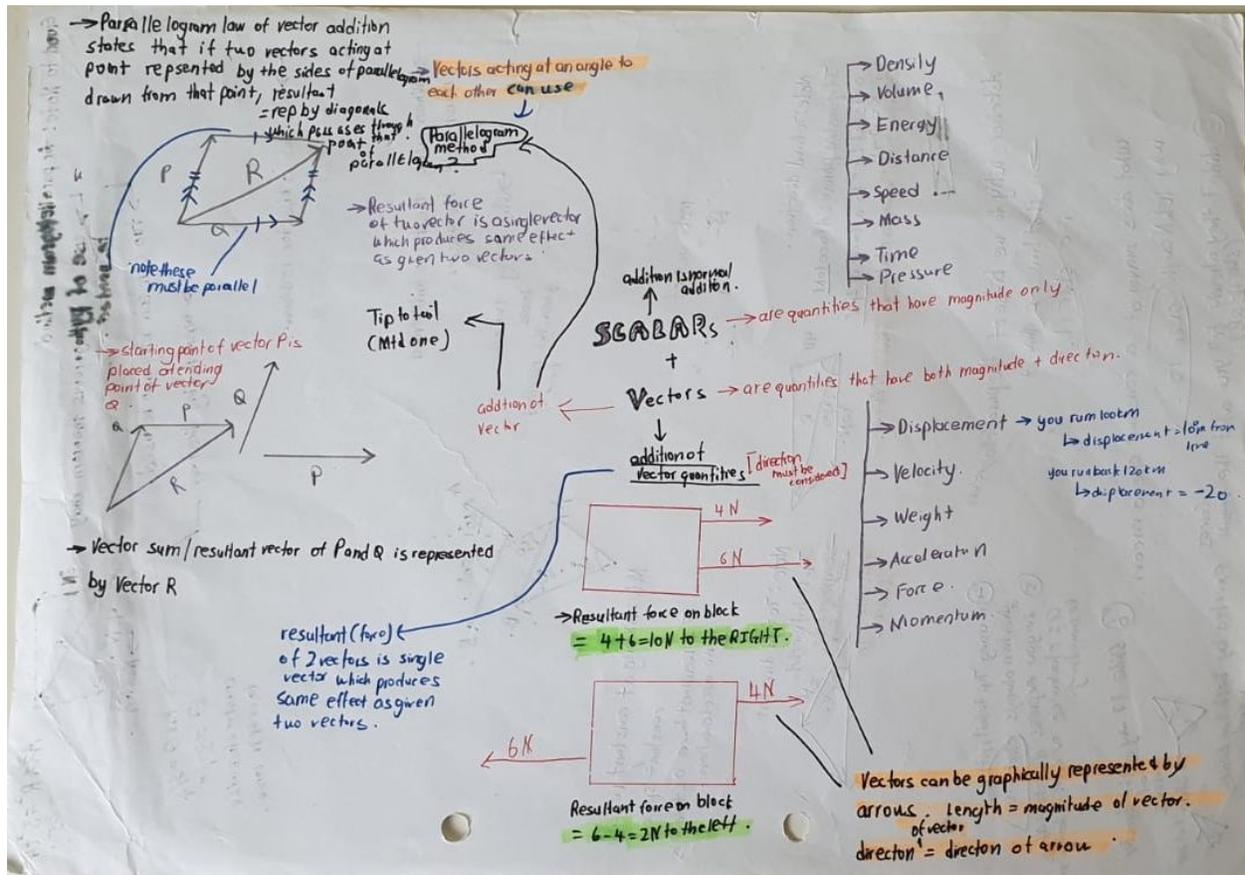


Agree disagree

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3.2 Development of resources

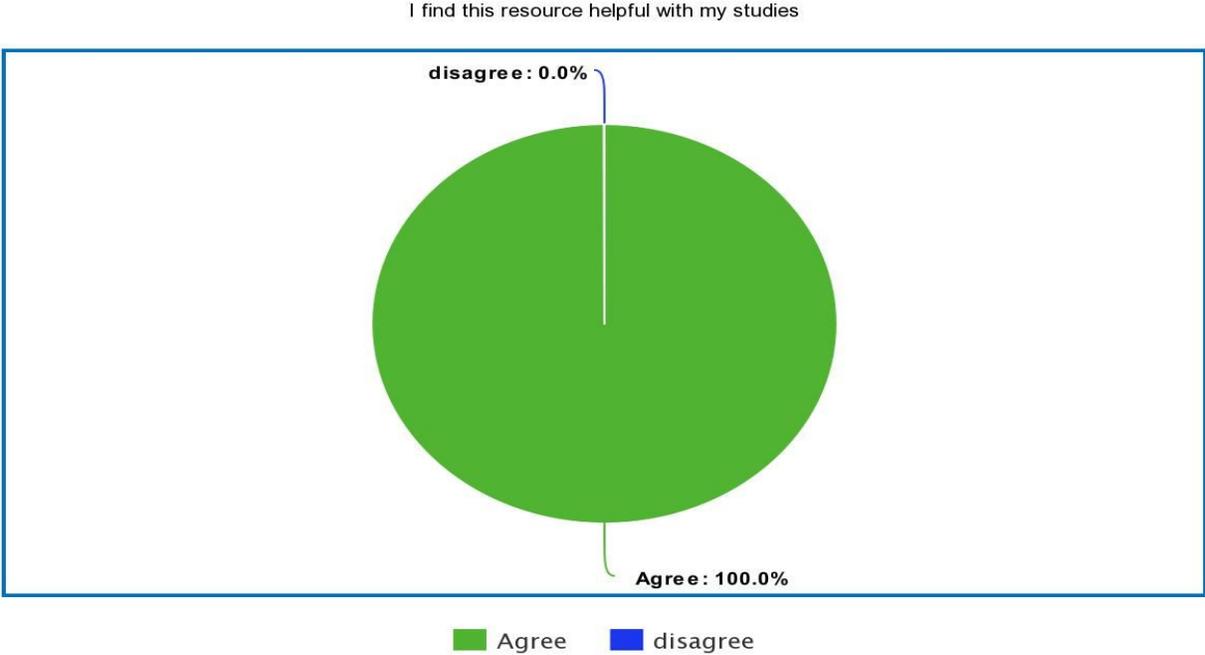
We reviewed many of the teacher's given notes for our everyday classes for instance, notes for physics given by teachers like Dr Chia. We tried to minimize the information so that only important information and examples were included in our project. After that, we brainstormed on how to make the topic more interesting and came up with the idea of drawing diagrams pertaining to the topic to engage our visual learners. Finally we went online to search for practice examples and tutorials on certain topics and put it all in a powerpoint slide, finishing with a Kahoot quiz whose questions we took from some textbooks and online resources.



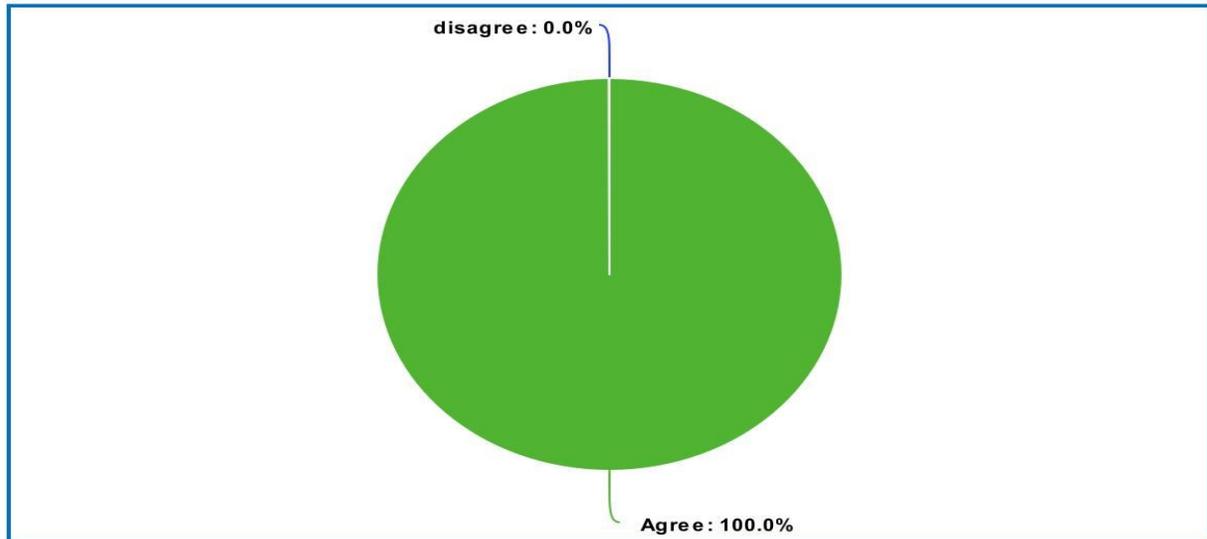
3.5 Pilot test

2 pilot tests was administered to a group of 18 Secondary Three students. A product demo was conducted where the powerpoint resources were shown and their views were sought. A survey was conducted for them to comment on our sample package. The feedback was generally positive and they said it would be helpful towards their studies. We also conducted a survey of one of our participants and he also gave us a very positive feedback saying that our product were very clear and linked the ideas very well. However, our participants also gave us feedback on how to improve our project they gave suggestions such as making the mindmaps clearer which were incorporated into the finetuning of the product.

Results from survey conducted for our pilot tests



I have a deeper understanding on the topic through this resource



Agree disagree

meta-chart.com



A picture of our participants working hard



Interview of participant

4. Outcome and Discussion

As the project obtained positive feedback when pilot-tested, a decision was made to use communication platforms(e.g. Whatsapp and Gmail) as well as personal confrontations if underachieving secondary 3 students are not coping and require help in certain subjects. There are also offline docs that students can access should they want to study outside without any internet connection, allowing them to have more time to study and allow them to study more conveniently. When they have such convenience, they can easily have access to these materials, and hence, increasing the rate of efficiency of studying. We were aware that some of our mindmaps were very messy as we made many annotations to it, hence, we redrew a few of them to make them more presentable.



5. CONCLUSION

Throughout this project, we as a group encountered many challenging obstacles and through this project we also picked up many new skills along the way. Some of the skills that we had picked up would be our social skills, as we need to convince the participants in doing our project and well as the skill of not fearing rejection. Many people had rejected our ideas at the start, however, we did not dwell on these rejection and moved on. Lastly, through this project, not only did our target audience benefit, we did too as we were the ones drawing the mindmaps and making the resources, we enjoyed learning through this process and this project also acted as extra practice for

our subject learning. We did face many challenges, one of it would be the fact that for every project meeting, there would be one or two group members not present due to their busy schedules. Hence, it was hard for them to catch up with what we were doing as well as hard for us to catch up with them. Hence there was miscommunication between the group members. However, we overcame this obstacle by meeting up during school hours, for instance during recess or breaks, hence we were able to complete our task on time and effectively. Another challenge that we faced would be group members unable to produce a clear mind map, which is reflected by our participants. We overcame this by meeting up together and drew the mindmap, with the more experienced mind map drawing group members leading the rest. Overall, this project was definitely a challenging one but we were able to bond with each other and pick up important skills hence if we were able to do this project again we definitely would.

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