

Project Pakistan Impact Pakistan



Prepared for Google for Education by Panl

April 2023

Project Pakistan

Overview

Objectives

Digital Transformation

High profile DX of a selection of pilot schools in partnership with government and other stakeholders, observed by leading academics

Insight

Generate deep insights into how schools adopt technology within the local cultural, political and economic context



Impact

Improve understanding and stimulate demand for our value proposition amongst stakeholders in the education system

Pilot School Profile

- Islamabad Model College for Girls (IMCG) was founded in 1984 and is situated in Darn-e-Koh, Islamabad, Pakistan. A total of 12 teachers and 55 students in grade 7 participated in the pilot.
- The school was selected for the pilot given its strategic geographical location, which paves the way for support in infrastructure from the Ministry of Education as well as general familiarity with technology. The school was also particularly interested in seeing the effects of technology adoption in classrooms on women empowerment for the community,



Project Timeline

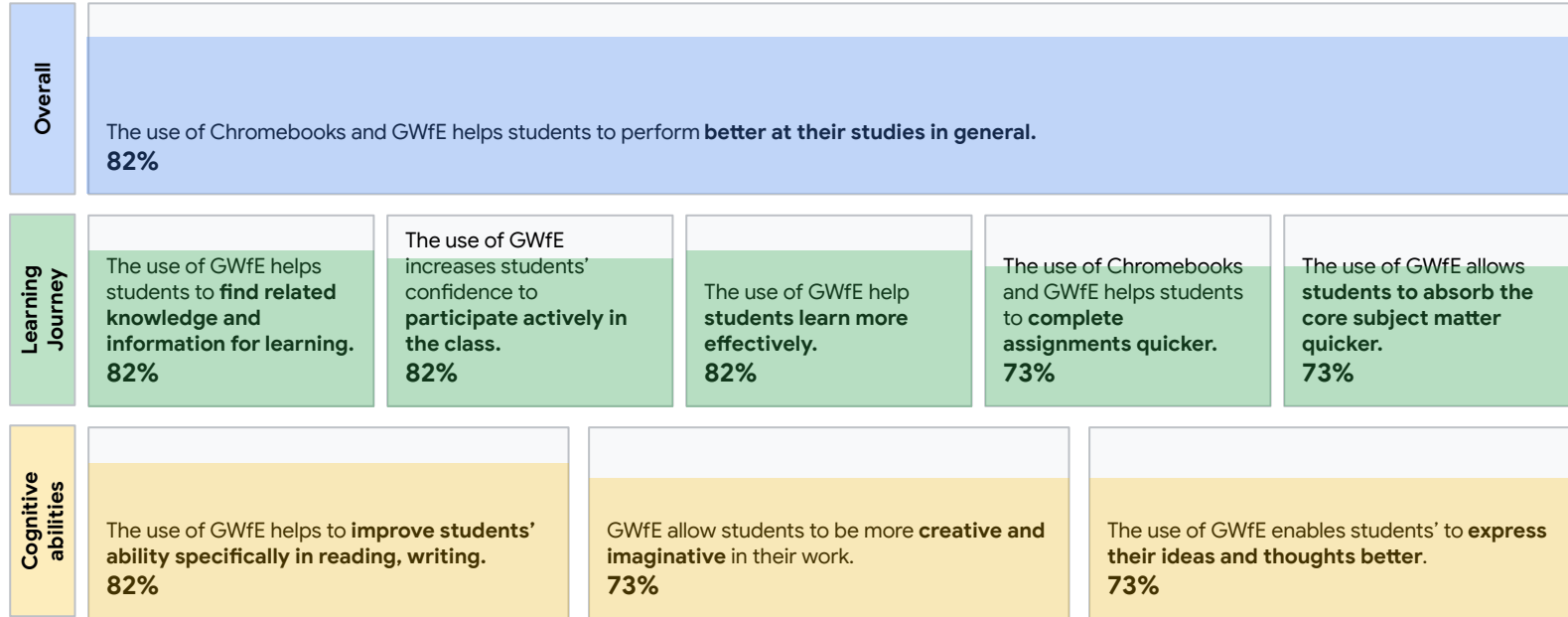


Project Pakistan

Positive impact on T&L

Positive impact along student journey, especially on research, participation, and enhanced literacy skills

Positive Impact on Student Journey

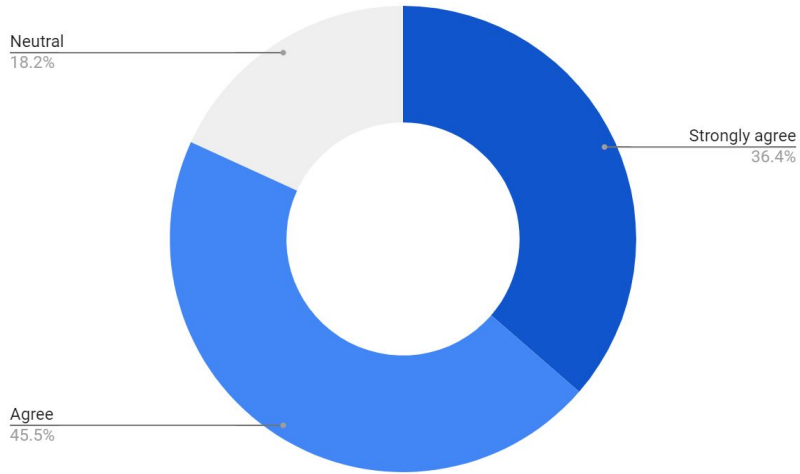


Source: Teacher Survey; "Please provide your opinion on the following statements:" - n = 12

Improve core
learning experience



Chromebook reduces learning disruptions and helps students keep up with their studies



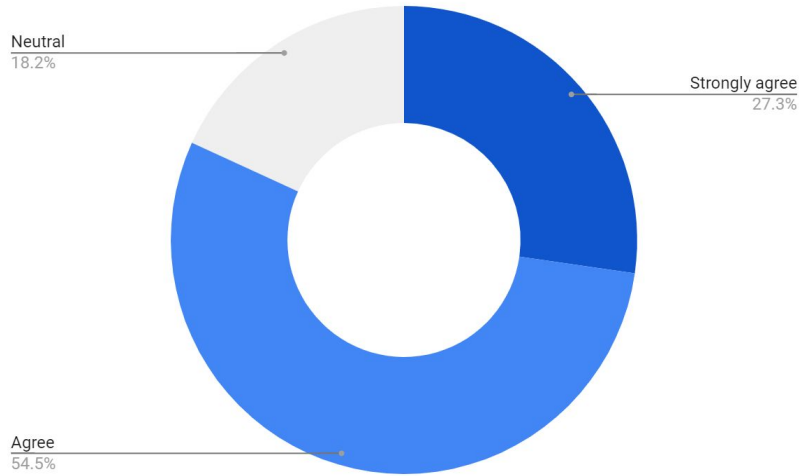
Chromebook is a very good [tool] to learn with. For example, sometimes when we need to take a sick leave from school, we can still attend classes through Google Meet and avoid wasting our time.”

Nosheen

Student, Islamabad Model College for Girls

Source: Teacher Survey; “Please provide your opinion on the statement: The students learn more effectively with GWfE.” - n = 12

Finding necessary information is now readily at students' fingertips



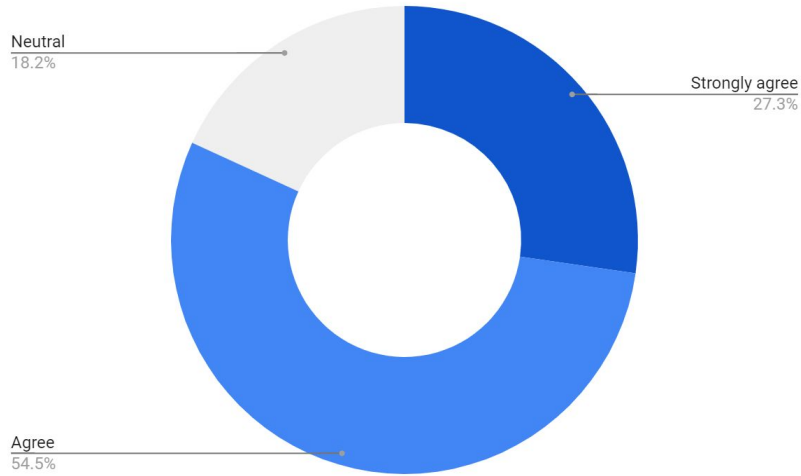
[Google Workspace and Chromebooks] are useful because we can find anything we want with just one click.”

Sheraz

Student, Islamabad Model College for Girls

Source: Teacher Survey; “Please provide your opinion on the statement: The use of GWfE helps students to find related knowledge and information for learning.” - n = 12

With Chromebooks, students are now more confident in class participation



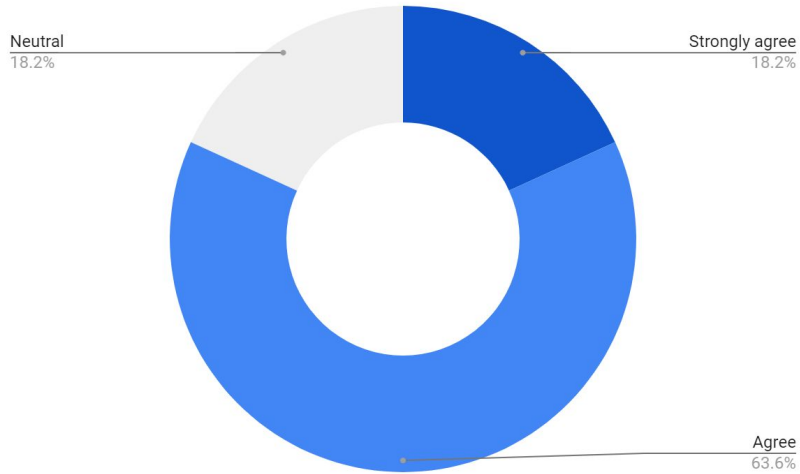
Most of the students were feeling confident using Chromebooks [in class].”

Haliba Rehman

Math Teacher, Islamabad Model College for Girls

Source: Teacher Survey, “Please provide your opinion on the statement: The use of GWfE increases students’ confidence to participate actively in the class.” - n = 12

Students can keep themselves posted about the latest knowledge and perform better in studies



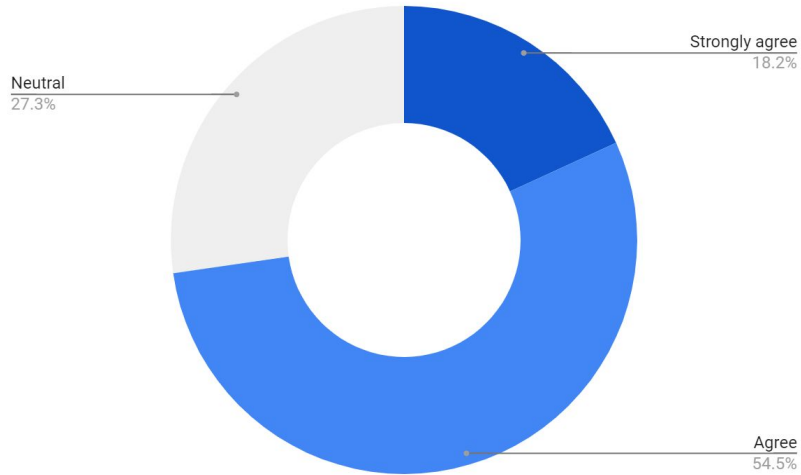
I recommend Google Workspace and Chromebooks to fellow students because I can see it helps me keep my knowledge up to date.”

Khan

Student, Islamabad Model College for Girls

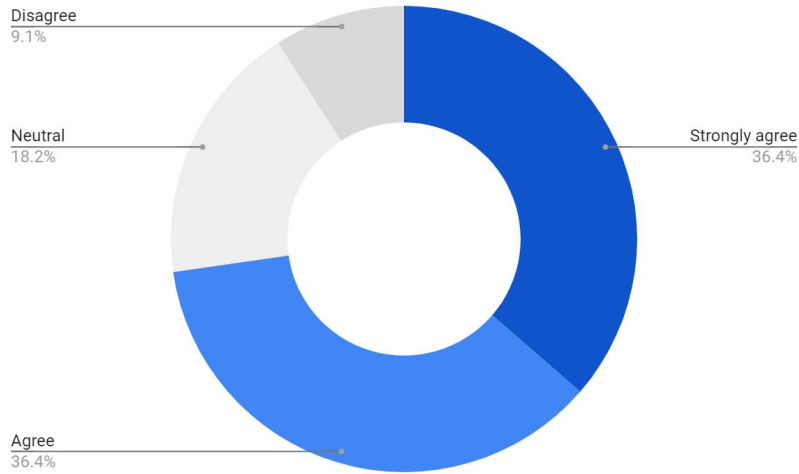
Source: Teacher Survey; “Please provide your opinion on the statement: The use of Chromebooks and GWfE helps students to perform better at their studies in general.” - n = 12

Google Workspace and Chromebooks help students learn STEM subjects better



Source: Teacher Survey; "Please provide your opinion on the statement: The use of GWfE helps to improve students' ability specifically in STEM subjects." - n = 12

Students complete assignments quicker now that exercises are more practical



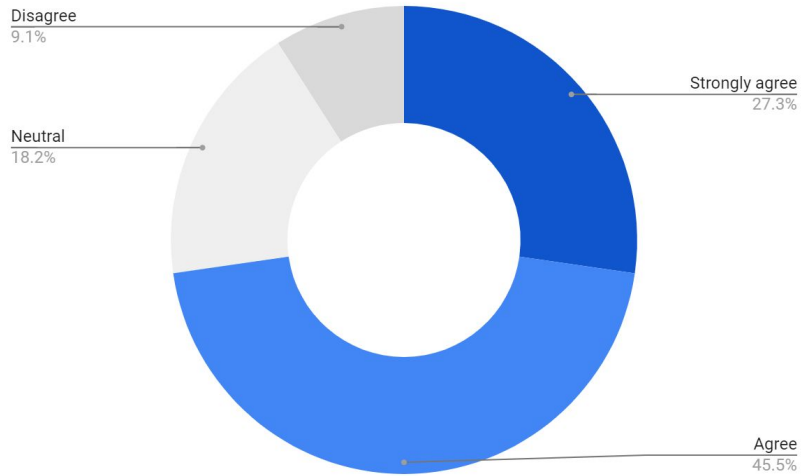
Students were very excited now that they can have more practical exercises.”

Samreen Laghari

Teacher, Islamabad Model College for Girls

Source: Teacher Survey; “Please provide your opinion on the statement: The use of Chromebooks and GWfE helps students to complete assignments quicker.” - n = 12

Technology makes related materials easily accessible to students



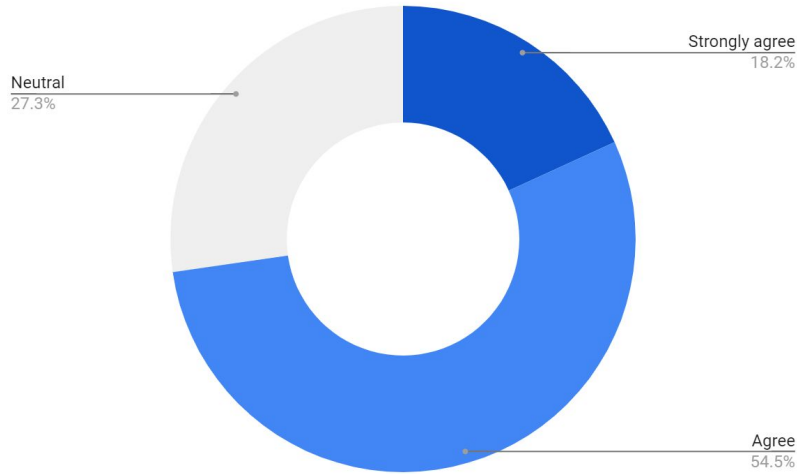
Chromebooks allowed my students to learn about related topics better and faster by finding related content online.”

Shazia Tubbassum

Persian Teacher, Islamabad Model College for Girls

Source: Teacher Survey; “Please provide your opinion on the statement: The use of Chromebooks and GWfE allows students to develop a better understanding of subjects through their own research.” - n = 12

Students absorb the core subject matter better when they can self-explore the content



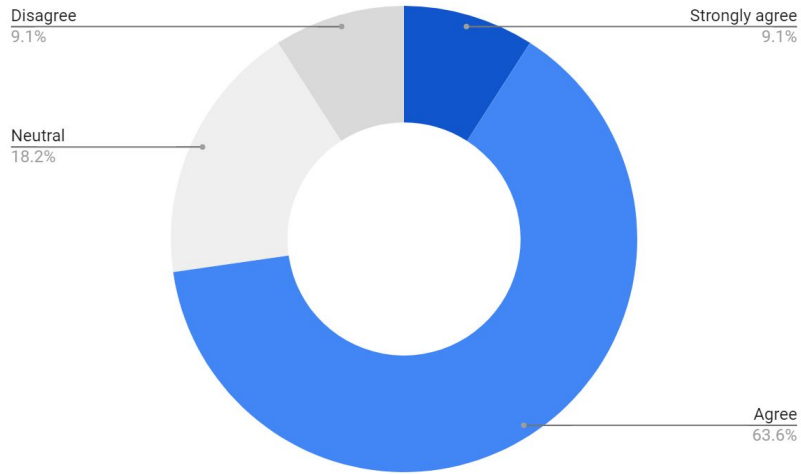
Students become more interested when they can get to learn about the topic by themselves.”

Habiba Rehman

Math Teacher, Islamabad Model College for Girls

Source: Teacher Survey; “Please provide your opinion on the statement: The use of Chromebooks and GWfE allows students to absorb the core subject matter quicker.” - n = 12

Technology elevates the learning experience much more compared to traditional classrooms

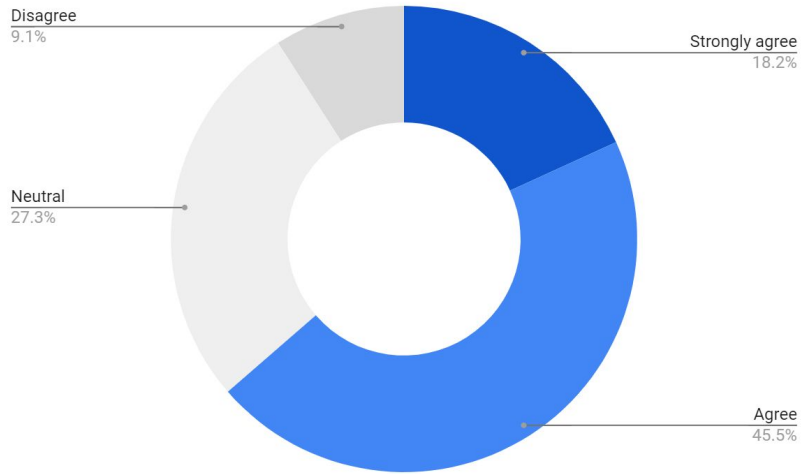


Using technology makes studying more exciting rather than just using a pen on a paper.”

Haroon
Student, Islamabad Model College for Girls

Source: Teacher Survey; “Please provide your opinion on the statement: Chromebooks were well suited to my students.” - n = 12

Students' behavior become much more excited when using Google Workspace and Chromebooks



Students were fully immersed [in class] when using Chromebooks. I could see that they were more excited compared to their normal behavior in traditional classes.”

Afshan Afzal

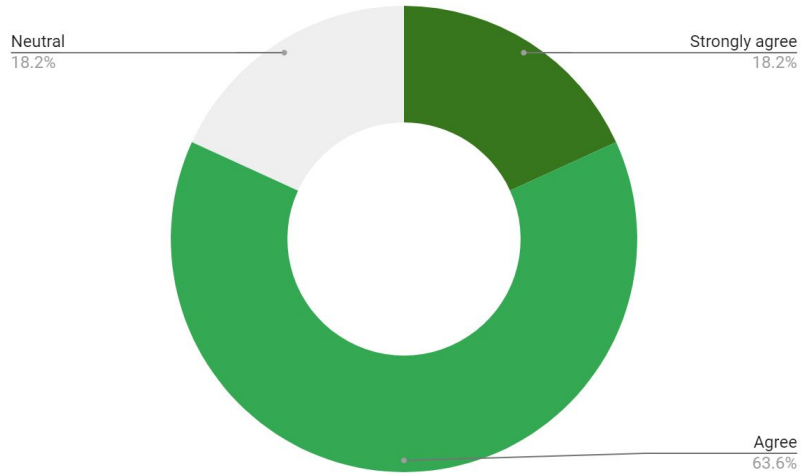
Arabic Teacher, Islamabad Model College for Girls

Source: Teacher Survey; “Please provide your opinion on the statement: The students are better behaved with the use of GWF.” - n = 12

Improve cognitive
abilities

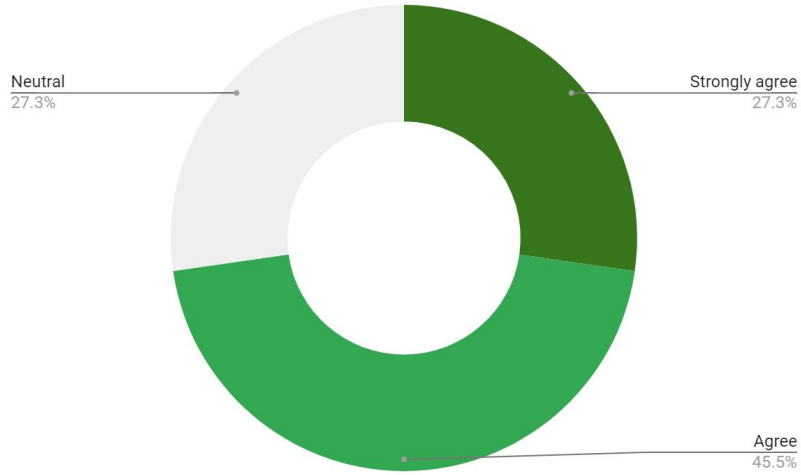


Google Workspace and Chromebooks help students with literacy skills



Source: Teacher Survey; "Please provide your opinion on the statement: The use of GWfE helps to improve students' ability specifically in reading, writing." - n = 12

Google Workspace and Chromebooks help students become more creative



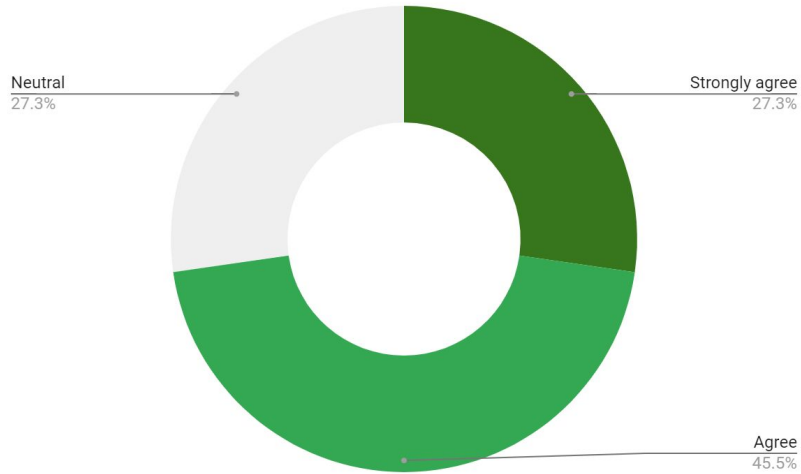
[Chromebooks and Google Workspace] helps to enhance abilities such as creativity.”

Sadia Haq

Teacher, Islamabad Model College for Girls

Source: Teacher Survey; “Please provide your opinion on the statement: GWfE allow students to be more creative and imaginative in their work.” - n = 12

Google Workspace and Chromebooks help students articulate their thoughts better



[Chromebooks and Google Workspace] helps to enhance abilities such as explaining ideas.”

Sadia Haq

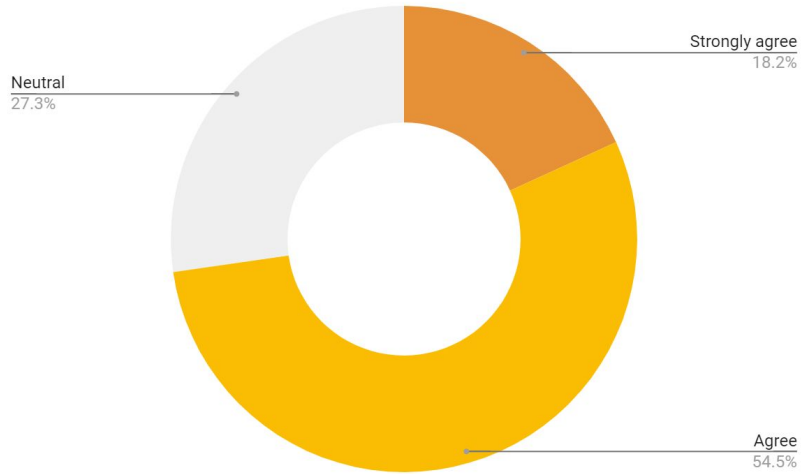
Teacher, Islamabad Model College for Girls

Source: Teacher Survey; “Please provide your opinion on the statement: The use of GWfE enables students to express their ideas and thoughts better.” - n = 12

Improve
collaboration



Google Workspace and Chromebooks help students communicate more with each other



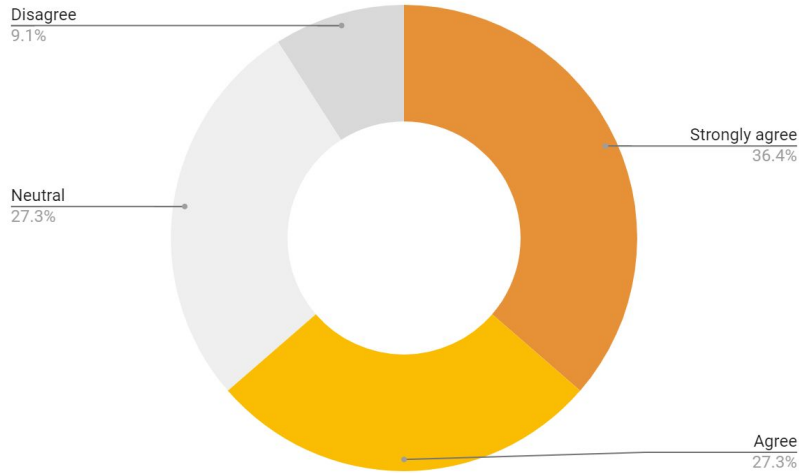
[Chromebook and Google Workspace for Education] helps us to improve our social skills.”

Sajid

Student, Islamabad Model College for Girls

Source: Teacher Survey; “Please provide your opinion on the statement: The use of GWfE encourages students to communicate more with their classmates.” - n = 12

Google Workspace and Chromebooks help students collaborate more with each other



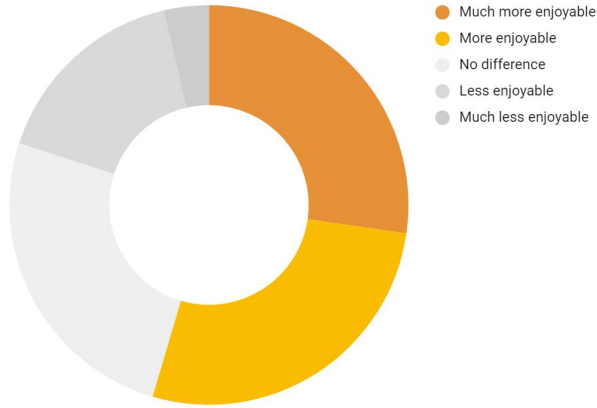
[Chromebook and Google Workspace for Education] helps us to improve our social skills.”

Sajid

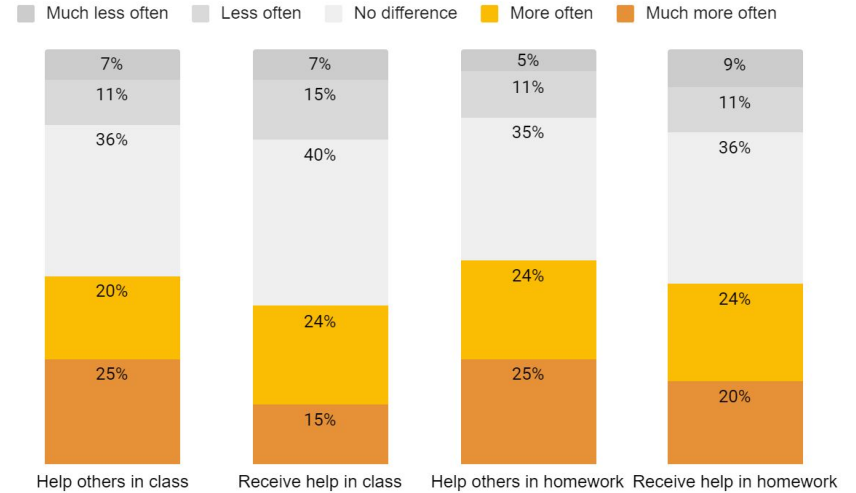
Student, Islamabad Model College for Girls

Source: Teacher Survey; “Please provide your opinion on the statement: The use of GWfE encourages students to collaborate more with their classmates.” - n = 12

Both collaboration levels and classroom experience are significantly improved



55% Students said the classroom experience was more or much more enjoyable



>39% Students claim to help and receive help more often both in class and with homework

Source: Student Survey; "Compared to the class without Google Workspace for Education and Chromebooks, how do you find the class experience?". n = 55
 "Please describe the new classroom experience compared to before the introduction of Google Solutions." - n = 55

Shared Device Model enhancing peer collaboration

- With Google Workspace for Education tools such as Classroom, students were already well-equipped to have synchronous collaboration, such as providing feedback for their classmates through direct posting.
- The Shared Device Model further enhanced student collaboration by encouraging faster students to take the lead and mentor their peers, which is usually not possible in traditional classroom set-ups.



Unlike other pilots, students at IMCG was given access to Chromebooks through a shared device model, where 2-3 students would share a device (see photo).

Shared Device Model



Unlike other pilots, students at IMCG was given access to Chromebooks through a shared device model, where 2-3 students would share a device (see photo).



Source: Academic report – Classroom observation and Interviews

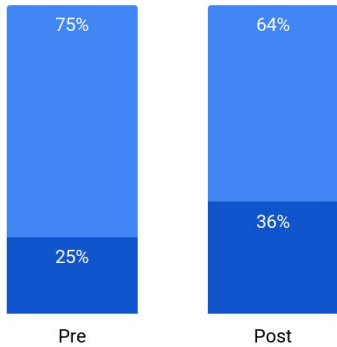
Positive impacts on Teaching Experience



Significant increase in comfort level of using Workspace and Chromebooks both for preparation and in class

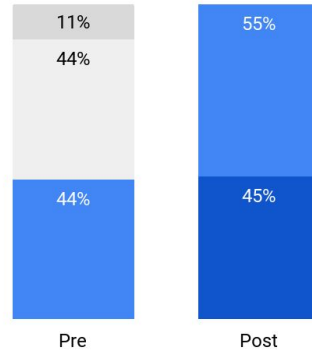
Teachers' attitude towards using technology in class

- I see benefits but there are obstacles.
- I see the benefits and try to use technology wherever I can.



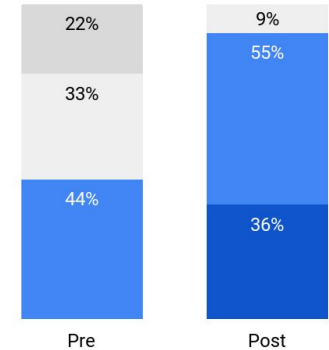
Using Google Workspace and Chromebooks in classrooms

- Not comfortable at all
- Mostly not comfortable
- Basic level of comfort
- Very comfortable



Using Google Workspace and Chromebooks for lesson planning

- Not comfortable at all
- Mostly not comfortable
- Basic level of comfort
- Very comfortable



Source: Teacher Survey; "What is your attitude to technology in the classroom?" - n = 12
"What is your comfort level when using Google Solutions in classrooms and for lesson planning?" - n = 12

Google Workspace and Chromebooks save teachers' time significantly

100%

Teachers said that
GWfE saves their time

64%

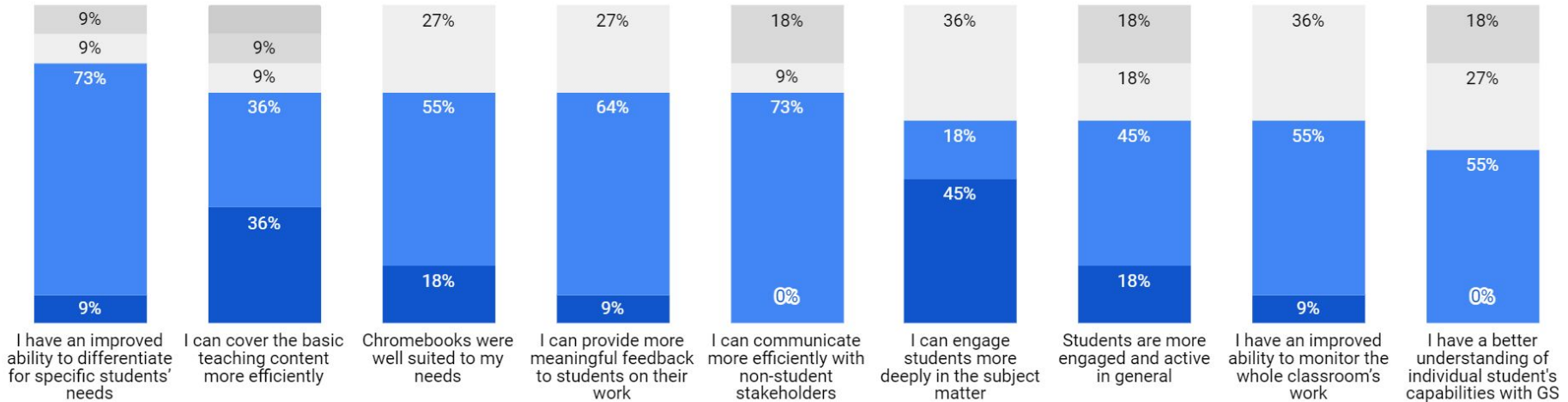
GWfE saves their time
by 1-5 hours / week

Source: Teacher Survey; "Section 3: Questions about Your Schedule and The Effect of Google Solutions (GWfE) on your time." - n = 12

>80% of teachers can now better identify students' unique needs, allowing more effective content delivery

Teachers' experience when using Chromebooks

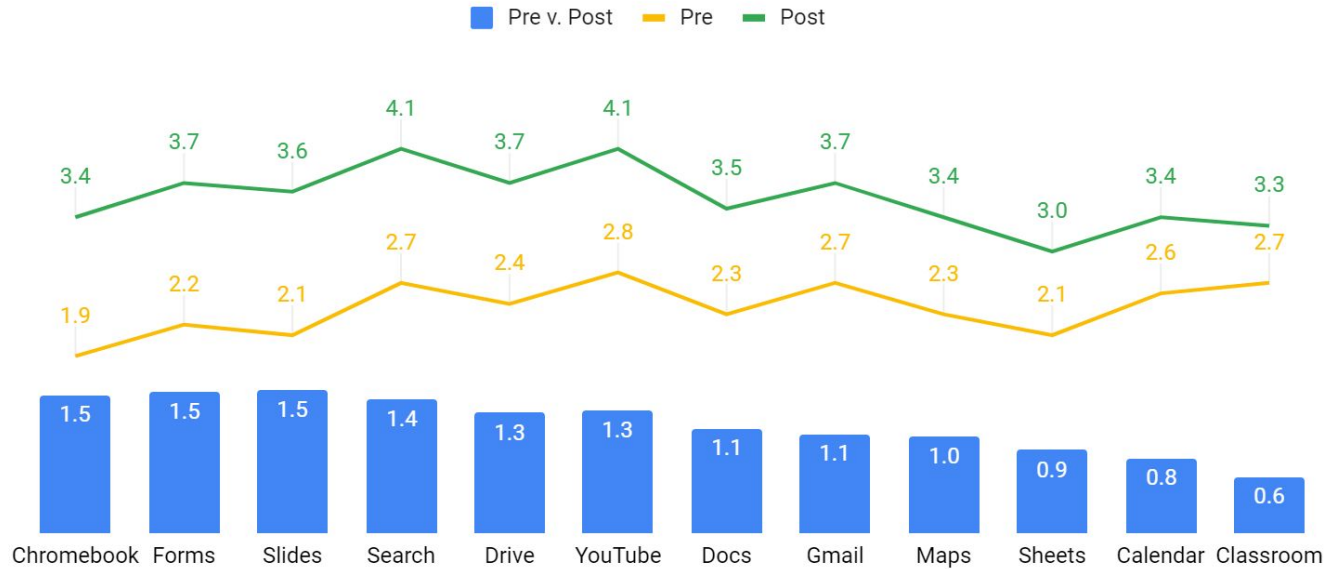
Strongly disagree Disagree Neutral Agree Strongly agree



Source: Teacher Survey; "Please tell me your opinion about the following statements" - n = 12

Increase in comfort level with Chromebooks and different GwE apps

Teachers' comfort level with Google Workspace and Chromebook

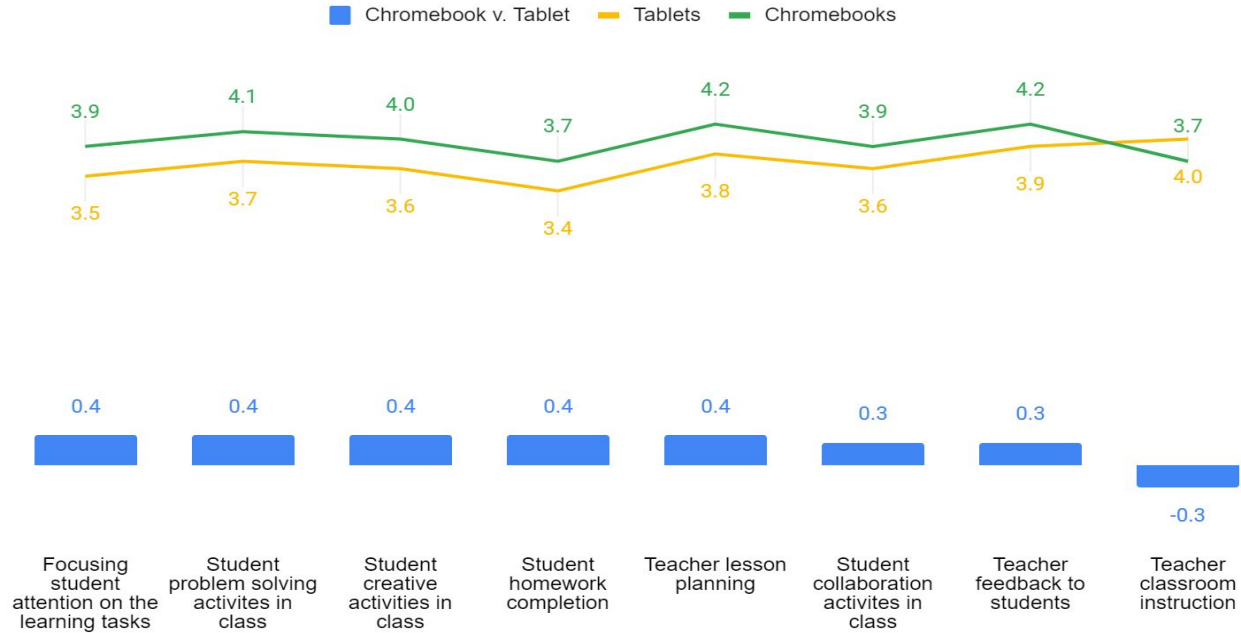


Source: Teacher Survey; "What is your comfort level when using ____?" - n = 12

Project Pakistan

Device comparison

Chromebooks were rated higher than tablets especially in focusing attention and problem-solving skills

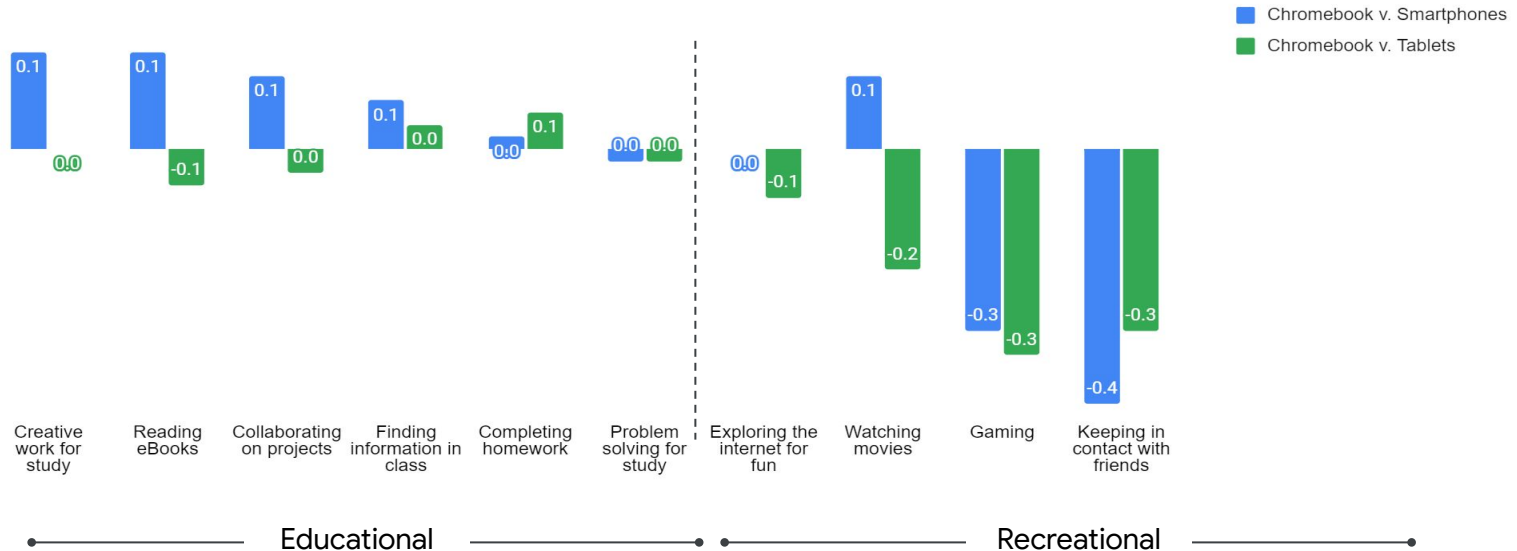


Source: Teacher Survey; "Please rate how suitable Chromebooks / Tablets are for the following activities:" - n = 12

Chromebooks are better for educational activities, whilst not so for recreational ones

Chromebooks **outperform** on **educational** activities...

... and are **not seen** as **recreational** devices



Source: Student Survey; "Please rate how suitable Chromebooks are for the following activities:" - n = 55

Project Pakistan

Thank you!