Project Albus Impact
Chennai, India

Prepared for Google for Education by Panl

April 2023

Proprietary + Confidential

Executive summary

- **Project Background:**
  - Kendriya Vidyalaya is a co-educational, secular school situated in Anna Nagar, Chennai is run by Kendriya Vidyalaya Sangathan, an autonomous body under the Ministry of Human Resource Development. 100 Chromebooks were provided to a total of 14 teachers and 85 students were involved the pilot.
- **Notable Impacts on:**
  - **Learning experience:**
    - **62% of teachers** believe that with Google Workspace, students **learn more effectively and perform better in general.**
    - **40% of students** stated that their **classes are more enjoyable** with the use of Google Workspace and Chromebooks
    - There was a particularly **notable increase in student collaboration**, with **29%** of students stating that they **helped other students or received help more regularly** with technology in place.
  - **Teaching experience:**
    - Technology made core teaching activities more efficient with **67%** of the teachers stated that the systems **save them time, 50%** of which **save 1-5 hours per week.**
    - Google Workspace and Chromebooks helped teachers **cover basic teaching content more effectively** and at the same time provide more meaningful feedback for students.
- **Device Performance:**
  - The data continue to support the claim that Chromebooks are top educational devices as compared to other ones by both students and teachers.
  - **For teachers**, Chromebooks' most significant competitive edge is in **lesson planning** and **problem solving activities for students.**
  - This is echoed by students' data which shows a preference for Chromebooks over tablets when it comes to **completing homework** and **creative activities** in class.

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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

Kendriya Vidyalaya is a co-educational, secular school situated in Anna Nagar, Chennai. The school is run by Kendriya Vidyalaya Sangathan, an autonomous body under the Ministry of Human Resource Development. The school has been a leader in ensuring holistic personal and academic development since 1995.

100 Chromebooks were provided to a total of 14 teachers and 85 students were involved the pilot.

Project Albus in action

Online Technical and Pedagogical Training for Pilot Teachers

Teacher receiving certificate from online training

More fun and enjoyable classes led to better behaved students

Students receiving Chromebooks

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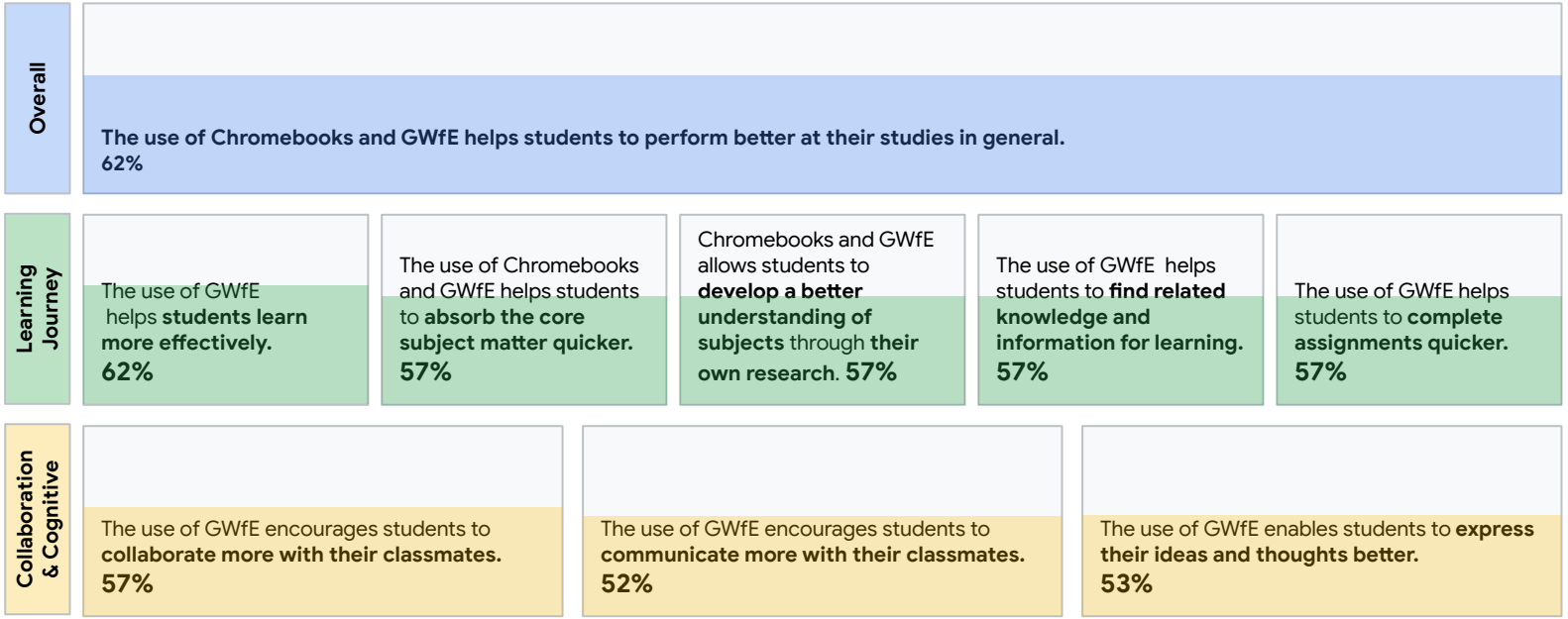
Positive impact on T&L

Generally positive impact on student journey, especially in collaboration among students

Positive Impact on Student Journey



Source: Teacher Survey; "Please provide your opinion on the following statements:"- n = 7

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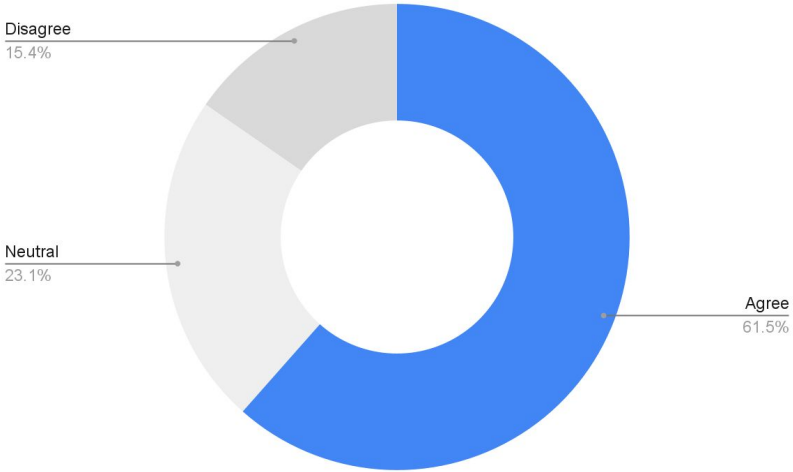
Key highlights

Improve core learning experience

Google for Education

Students can learn more effectively with Google Workspace and Chromebooks

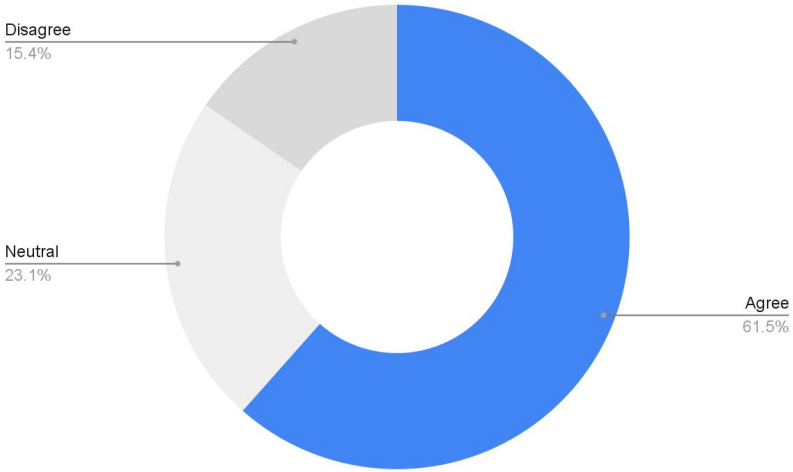


Children are highly motivated and also [more] active [in class].”

Lata Arun
Teacher, KVS Chennai

Source: Teacher Survey; “Please provide your opinion on the statement: The students learn more effectively with Google Workspace for Education and Chromebooks.” - n = 14

Students have better performance

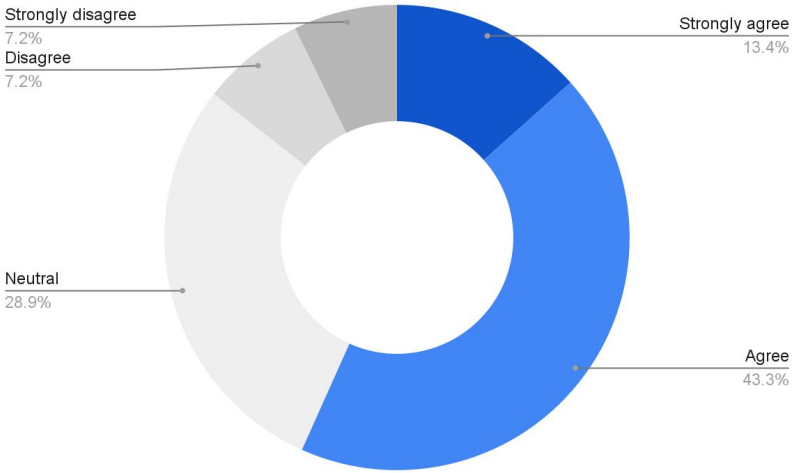


Chromebooks are useful for the students who are just beginning to use technology; the **simplified user interface** makes it easy to learn."

KVS Chennai Student

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 = 14

GWfE helps the students to submit assignment easily and receive feedback quickly

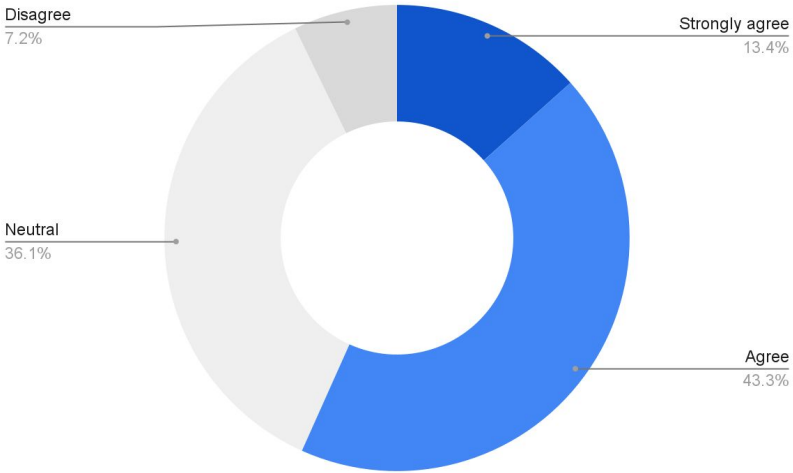


My students were very happy about doing weekly assessments using Chromebooks."

Athira Nair
Teacher, KVS Chennai School

Source: Teacher Survey; "Please provide your opinion on the statement: The use of Chromebooks and GWfE helps students to complete assignments quicker." - n = 14

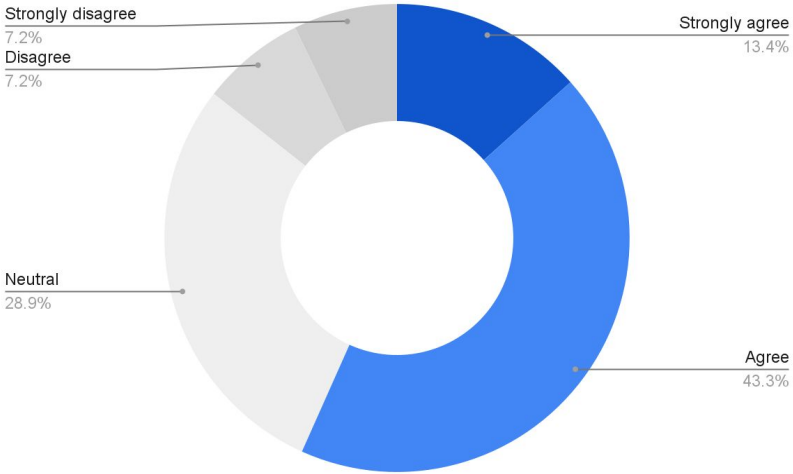
Activity-based learning helps students to absorb knowledge quicker



> I would recommend [Chromebooks and Google Workspace] to my classmates as it is easy to find solution for a particular question."
>
> KVS Chennai Student

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 = 14

Students can research better by using different platforms online

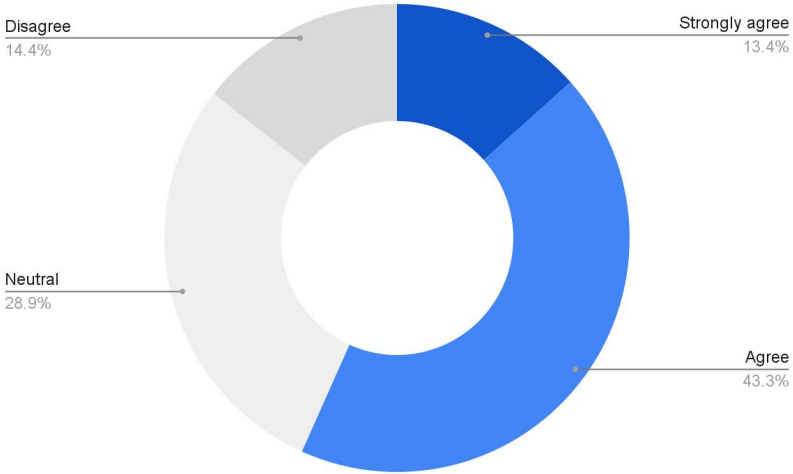


> Students can now search information about the subject [on their own].”

Ashap
Teacher, KVS Chennai School

Source: Teacher Survey; “Please provide your opinion on the statement: The use of GWfE and Chromebooks helps students to find related knowledge and information for learning.” - n = 14

Students can understand the subjects better by doing their own research

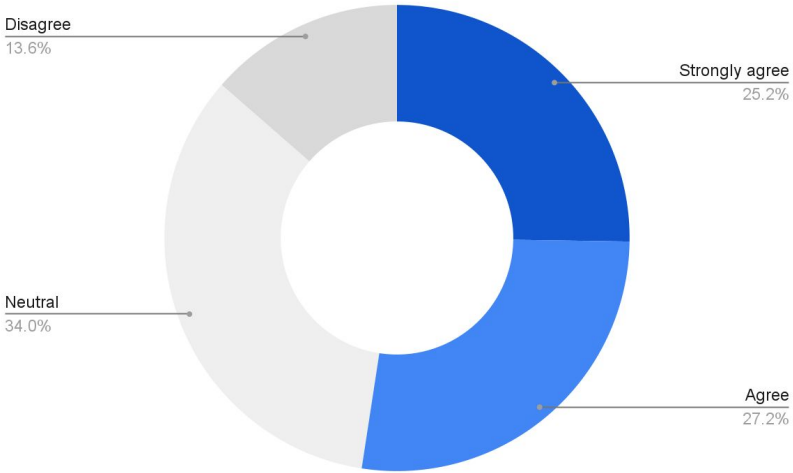


> Students can search online to understand answers better.”

M Narasimhan
Teacher, KVS Chennai School

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 = 14

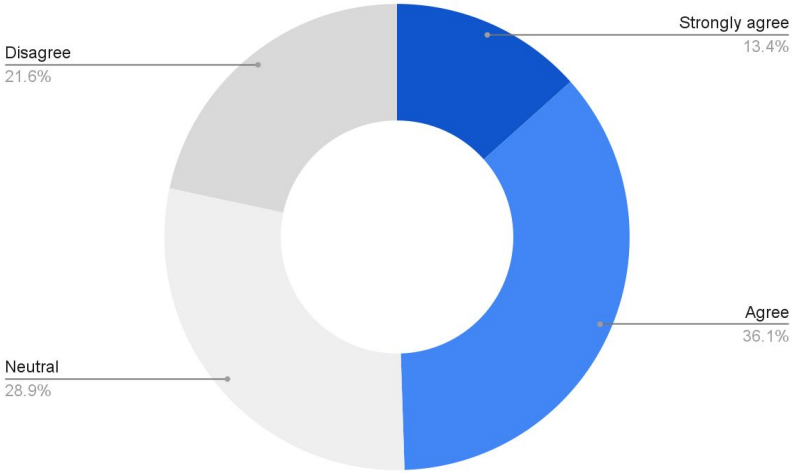
Chromebooks are well suited for students due to their size and weight



> Chromebooks are easy to carry around and very speedy.”
>
> KVS Chennai Student

Source: Teacher Survey; “Please provide your opinion on the statement: Chromebooks were well suited to my students.” - n = 14

Teacher-student interaction helps with student confidence and participation in the classroom

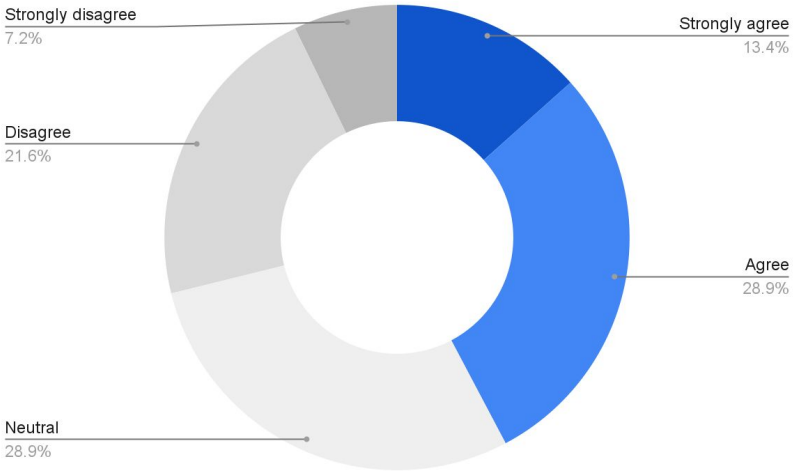


> Students were highly enthusiastic in doing various activities."

Lata Arun
Teacher, KVS Chennai School

Source: Teacher Survey, "Please provide your opinion on the statement: The use of GWfE and Chromebooks increases students' confidence to participate actively in the class." - n = 14

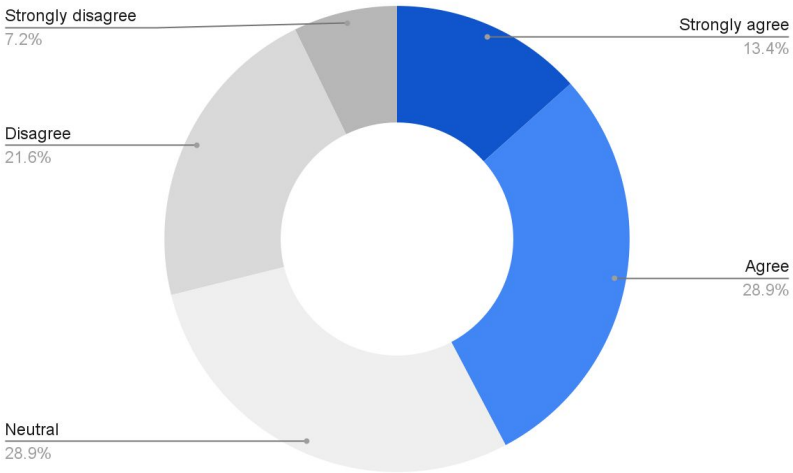
Students have better learning behaviors, with higher focus and higher learning engagement



> [Google Workspace and Chromebooks] enable children to focus on their studies."
>
> **Uma Gopalakrishnan**
> Teacher, KVS Chennai School

Source: Teacher Survey; "Please provide your opinion on the statement: The students are better behaved with the use of Google Workspace for Education and Chromebooks." - n = 14

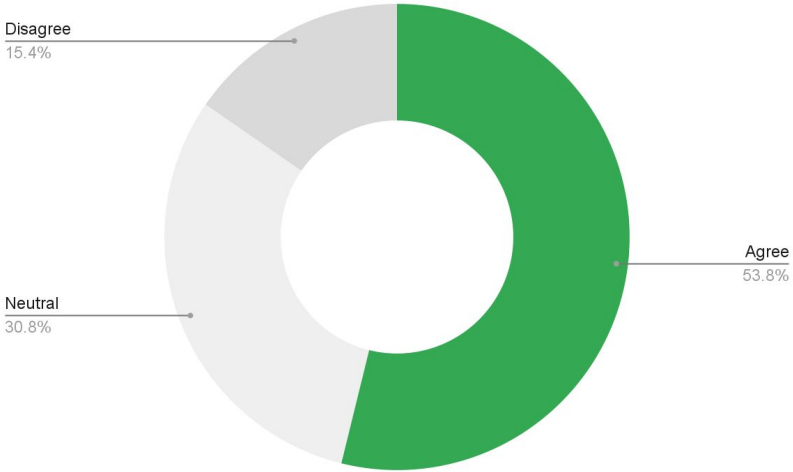
Math classes also benefit from various tools on Google Workspace for Education



Source: Teacher Survey; “Please provide your opinion on the statement: The use of GWfE helps to improve students’ ability specifically in STEM subjects.” - n = 14

Improve cognitive abilities

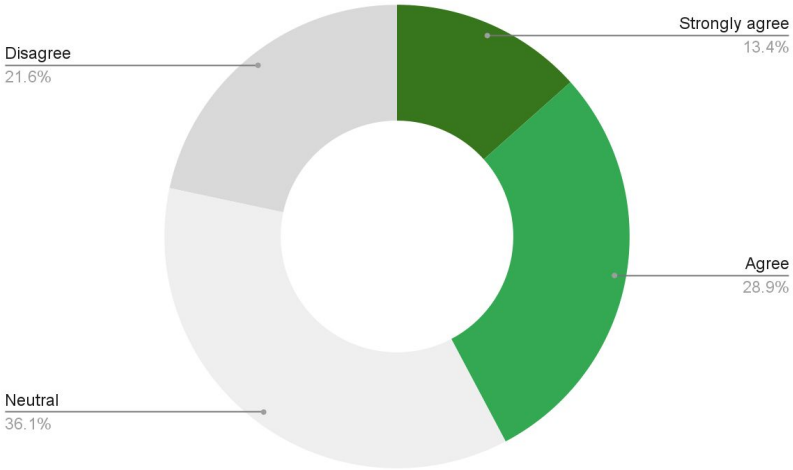
GWfE allows students to better express themselves by using different tools



> [Chromebooks and Google Workspace] provide more means for students to express their ideas, such as Google Docs and Slides."
>
> KVS Chennai Student

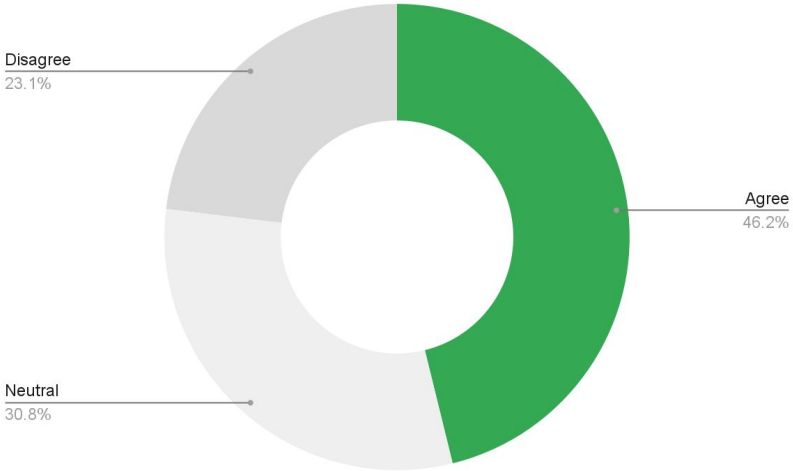
Source: Teacher Survey; "Please provide your opinion on the statement: The use of GWfE enables students to express their ideas and thoughts better." - n = 14

Students can also improve their reading by finding and understanding the words better



Source: Teacher Survey; “Please provide your opinion on the statement: The use of GWfE helps to improve students’ ability specifically in reading, writing.” - n = 14

More visualization means from Google Workspace tools foster students' creativity

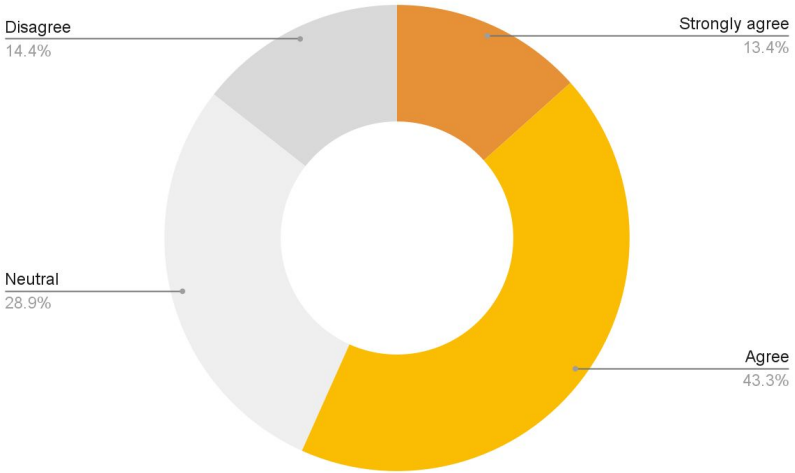


> [Chromebooks and Google Workspace] are very useful as they help us understand concepts in more creative ways."
>
> KVS Chennai Student

Source: Teacher Survey; "Please provide your opinion on the statement: GWfE allow students to be more creative and imaginative in their work." - n = 14

Improve collaboration

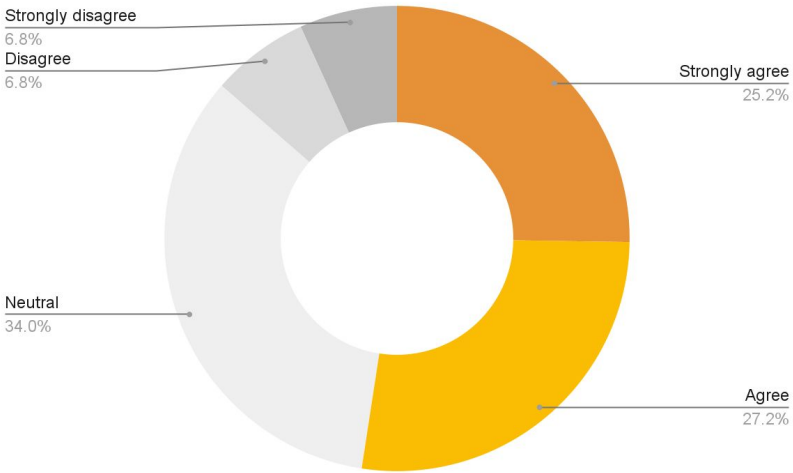
Students are inspired to work together on assigned projects



> Students study by collaborating [with their peers] more."
>
> **Subishana**
> Teacher, KVS Chennai School

Source: Teacher Survey; "Please provide your opinion on the statement: The use of GWfE encourages students to collaborate more with their classmates." - n = 14

Communication is improved through Google Classroom, outshining over other messaging apps

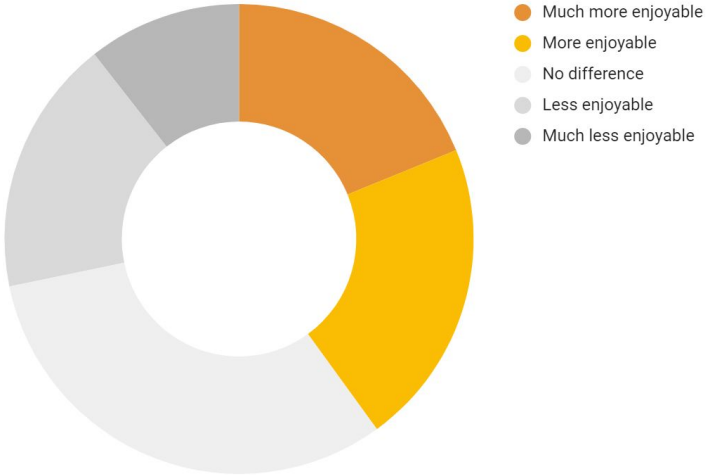


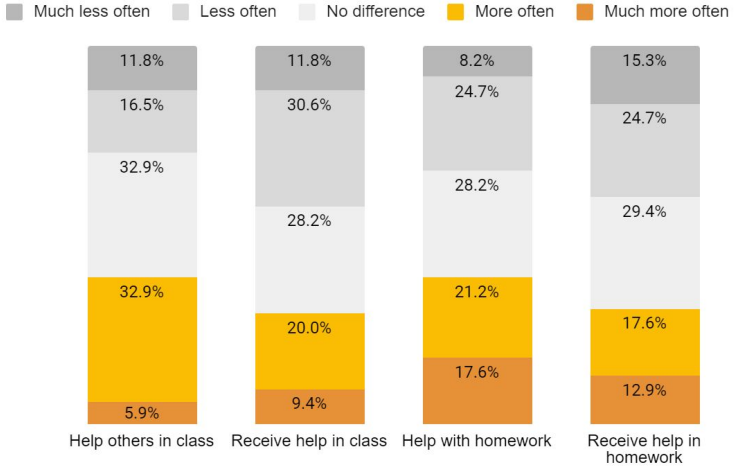
“Peer group discussions were very nice.”

Lata Arun
Teacher, KVS Chennai School

Source: Teacher Survey; “Please provide your opinion on the statement: The use of GWfE encourages students to communicate more with their classmates.” - n = 14

Both collaboration levels and classroom experience are significantly improved





40% Students said the classroom experience was more enjoyable

>29% 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 = 85
“Please describe the new classroom experience compared to before the introduction of Google Solutions.” - n = 85

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Positive impacts on Teaching Experience

Google for Education

Google Solutions significantly save teachers' time

67%

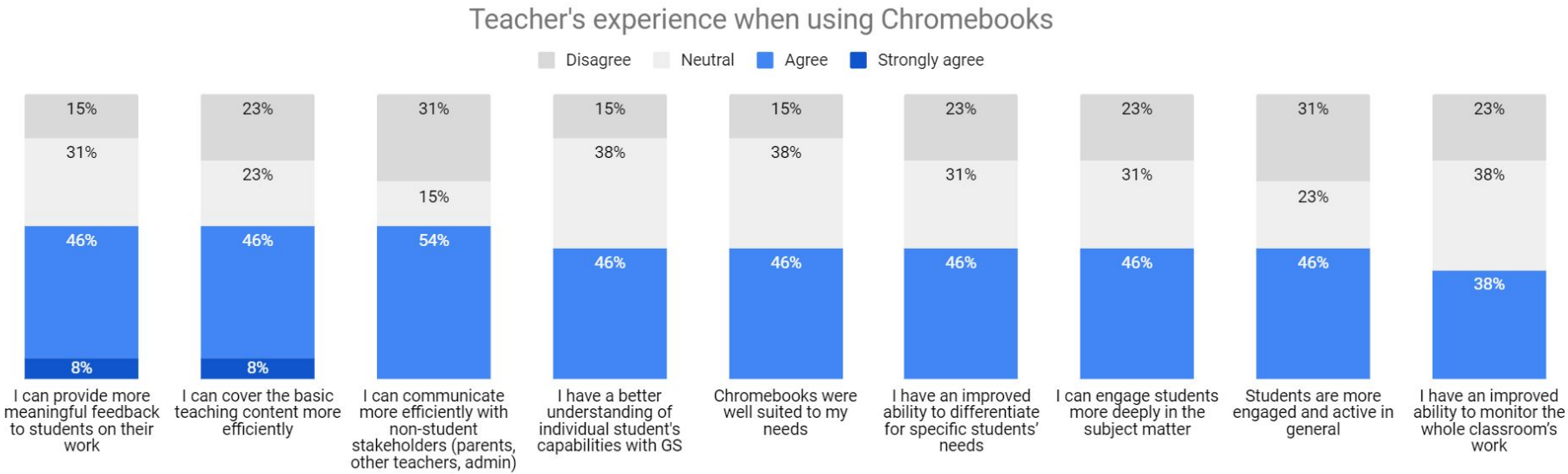
Teachers said that Google Workspace for Education and Chromebooks save their time

50%

says Google Workspace for Education and Chromebook save 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 = 14

Teachers can better differentiate student needs and cater to different learning styles



Source: Teacher Survey; "Please tell me your opinion about the following statements" - n = 14

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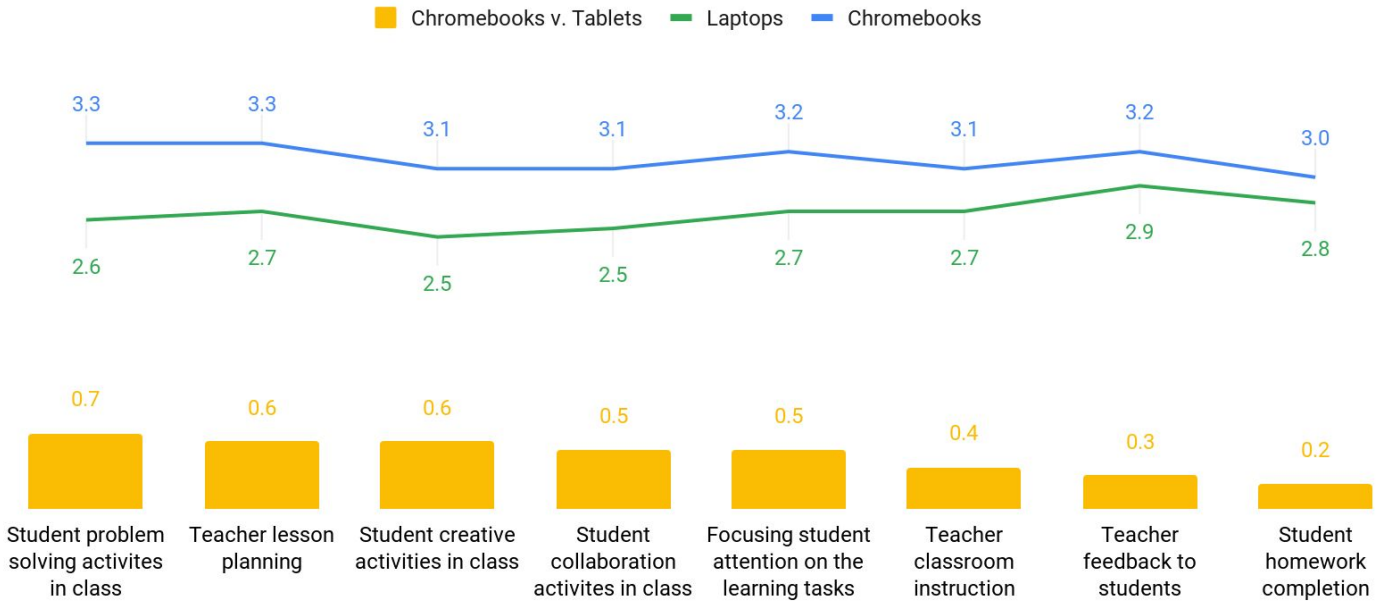
Device comparison

Chromebooks were rated by Teachers higher than laptops in all areas, especially in student collaboration



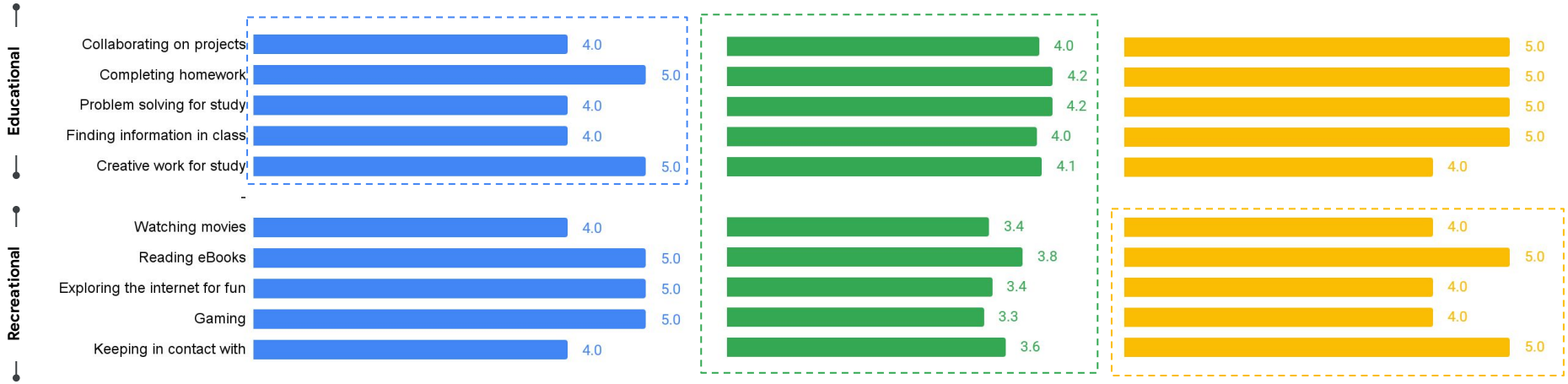
Source: Teacher Survey; “Please rate how suitable Chromebooks / Tablets are for the following activities:” - n = 14

Competitive advantage of devices differs

CBs are the **superior educational device** and not seen as recreational

Tablets are seen as **both educational and recreational**

Smartphones performance is inconsistent, but strongest on **recreational activities**



Optimal configuration for a student could be **CB for study** and **smartphone for recreational** to allow focus and differentiation of device usage, and to allow parents and teachers to control usage more easily

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Thank you!