







BrightBytes






Data Dive 2019




Establish an innovative  
and safe digital  
learning environment  
that enhances the 4C's





By the 2022-2023 collection, Denton ISD will achieve an **Advanced** (1100+) rating in the Classroom portion of Brightbytes.





# What is BrightBytes?






**CLASSROOM**



**ACCESS**

**SKILLS**


**ENVIRONMENT**









**Classroom:** The ways in which teachers and students are using technology to support learning (**Digital Learning**)



**Access:** The availability of devices (e.g., laptop, tablet, desktop, etc.) and digital tools, such as the Internet, in schools and at home (**Technology**)



**Skills:** Teachers' and students' confidence in, and frequency of, exercising foundational, online, and multimedia skills (**Both**)



**Environment:** The degree to which the organization's policies and practices promote and support technology use in the classroom (e.g., through tech support and professional development) (**Both**)

# Case Score

|            |           |  |
|------------|-----------|--|
| Beginning  | 800-899   | Early stages of technology adoption and use.   |
| Emerging   | 900-999   | Working toward expansion of basic knowledge and use.                                       |
| Proficient | 1000-1099 | Access and skills are high, but classroom practice has room to grow.                       |
| Advanced   | 1100-1199 | Beliefs and practices are in alignment and many positive instances of classroom use exist. |
| Exemplary  | 1200-1300 | Innovative practices are the norm.   |

### Classroom



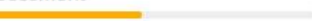
#### Use of the 4Cs



#### Digital Citizenship



#### Assessment



#### Assistive Technology



### Access



#### Access at School



#### Access at Home



### Skills



#### Foundational



#### Online



#### Multimedia



### Environment



#### The 3Ps



#### Support



#### Professional Learning



#### Beliefs





# Overall Case Score 2014 - 2019



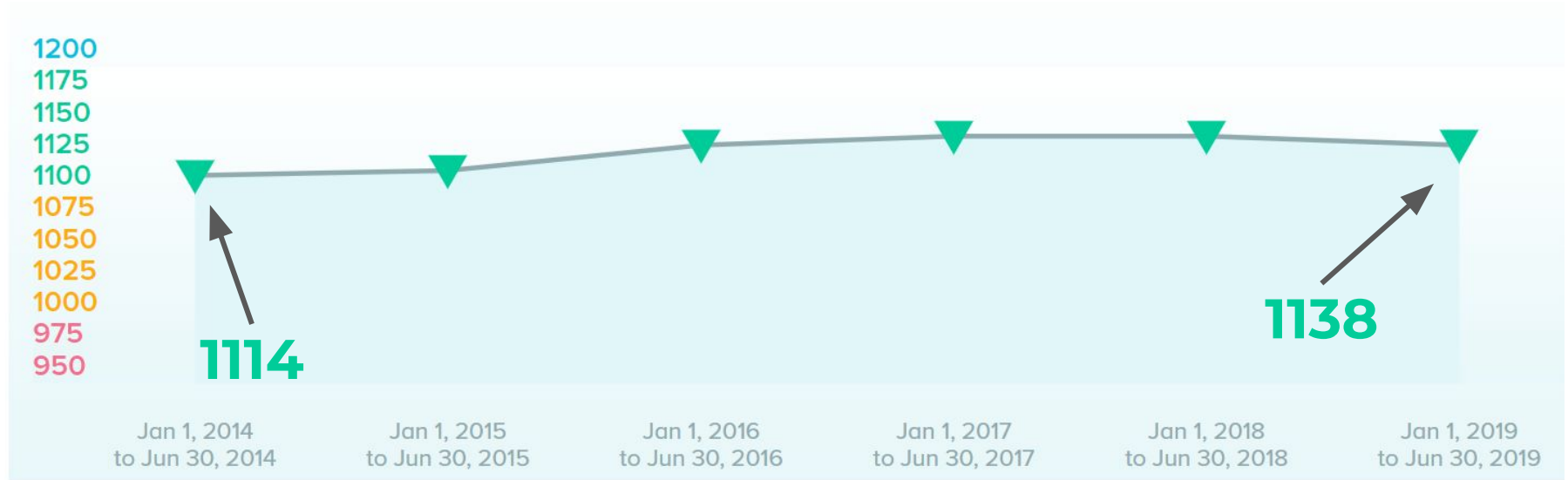
Average = +7 points/year

# Access Score 2014 - 2019



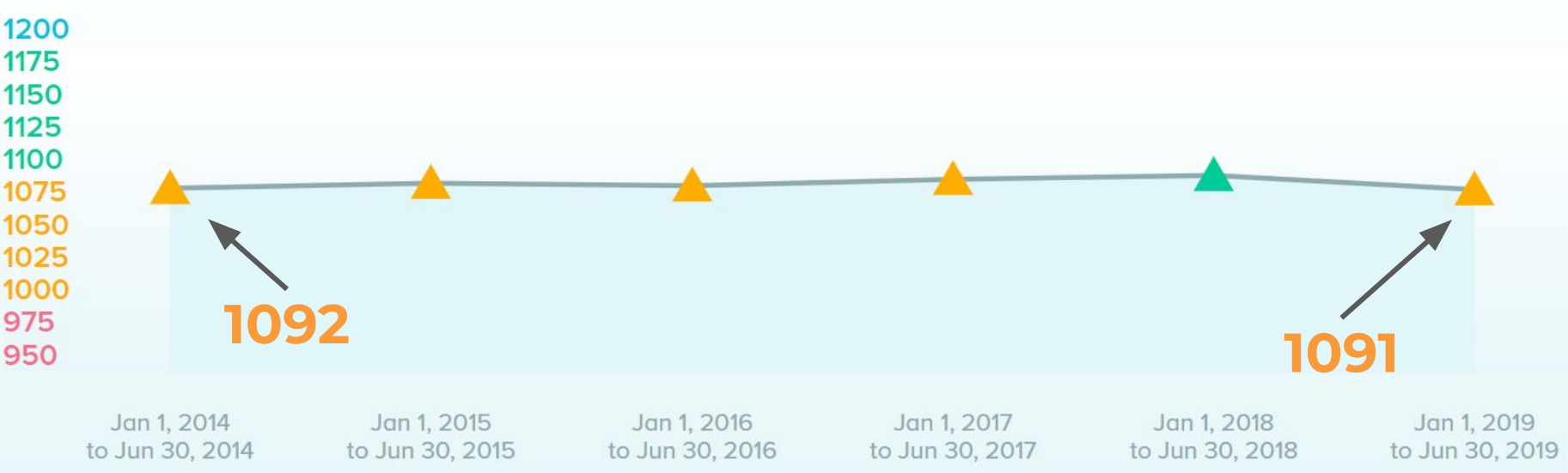
Average = +5 points/year

# Skills Score 2014 - 2019



Average = +4.8 points/year

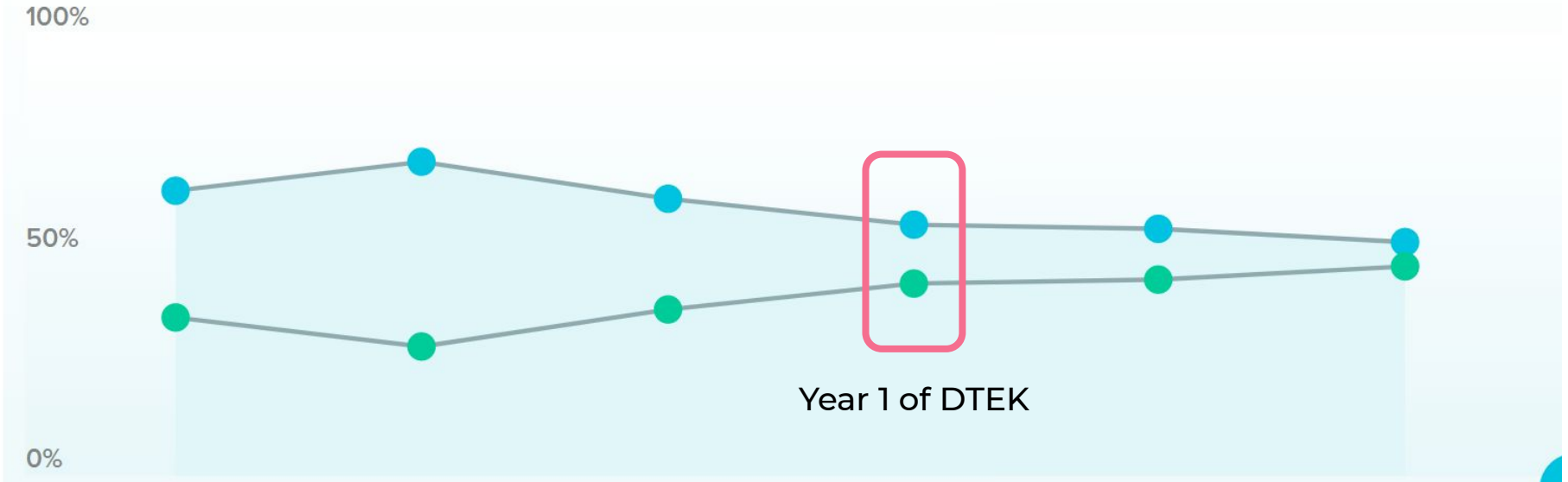
# Environment Score 2014 - 2019



Average = +/-0 points/year

# Students are allowed to use personal mobile devices in class for academic reasons

Yes  No



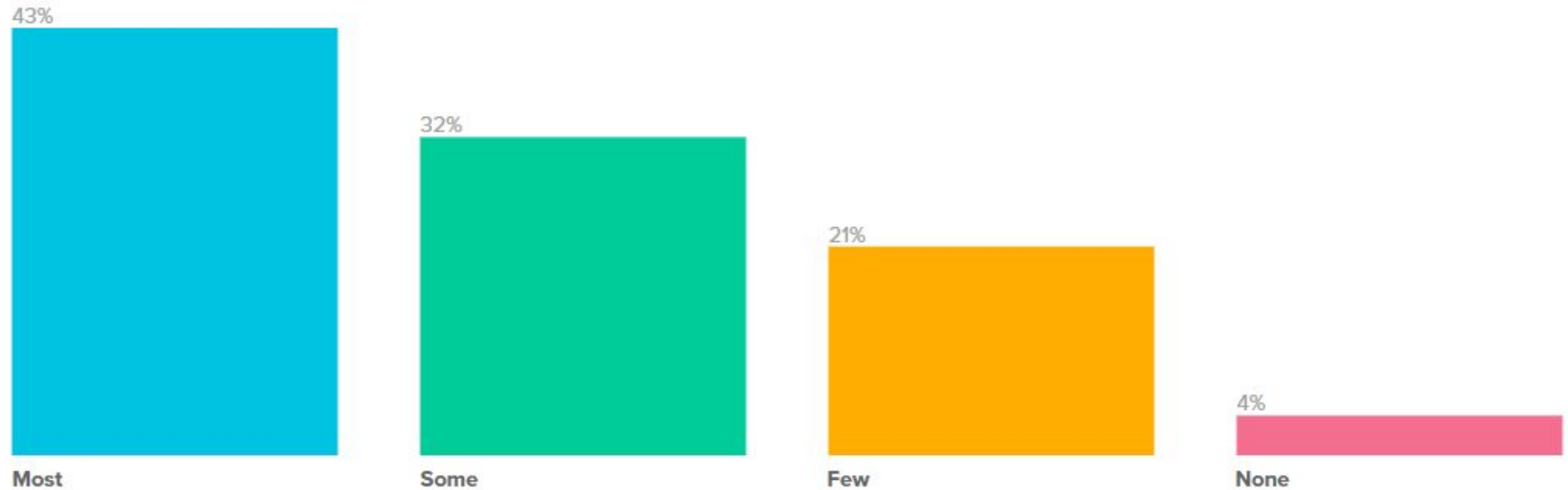
2015: Yes (71%) | No (29%)

2019: Yes (53%) | No (47%)

# Custom Questions

\_\_\_\_\_ of my teachers allow me to use my own personal device in class.

[Save Chart](#) [Share](#)

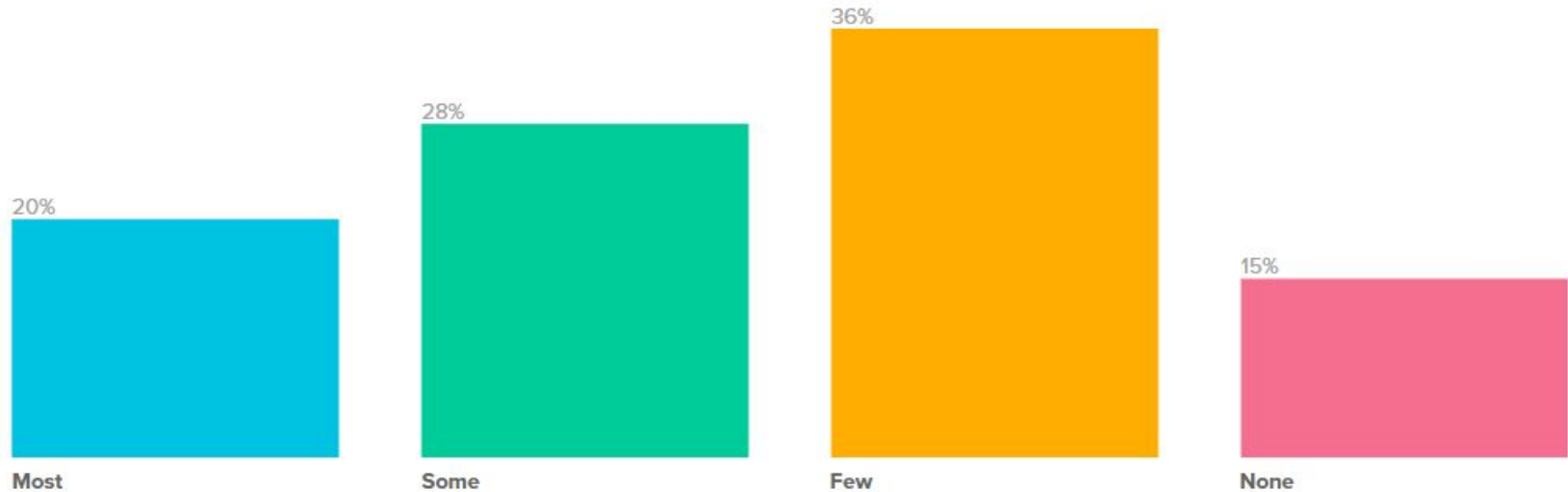


Reported by: High School Students

# Custom Questions

\_\_\_\_\_ of my teachers allow me to use my own personal device in class.

 Save Chart  Share



Reported by: Middle School Students

# Beliefs


 “Technology use in class can enhance student learning.”

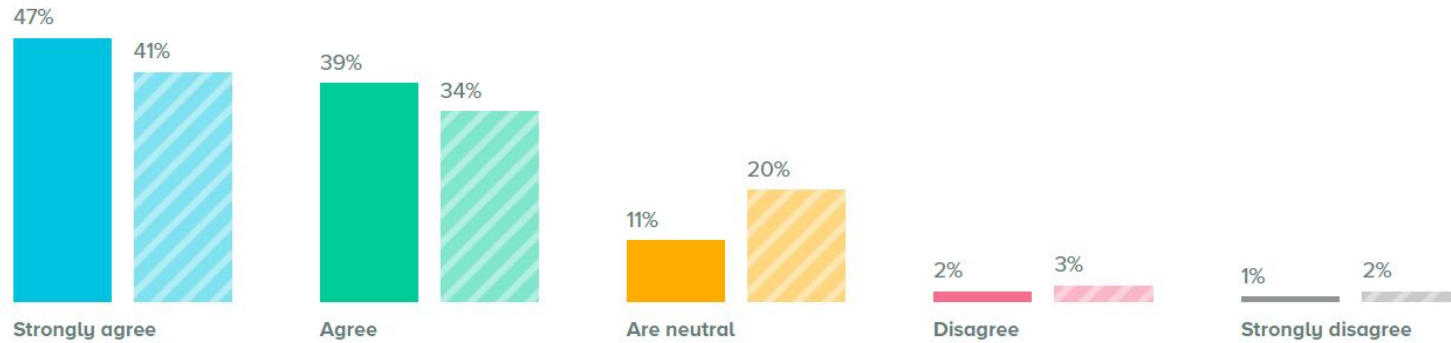
Chart

Trends

 View Insight

 Save Chart

 Share



 COMPARE

 **Teachers**  
Solids

 **Students**  
Stripes





# Teacher Beliefs


 “I want to learn more about effective technology use for teaching and learning.”

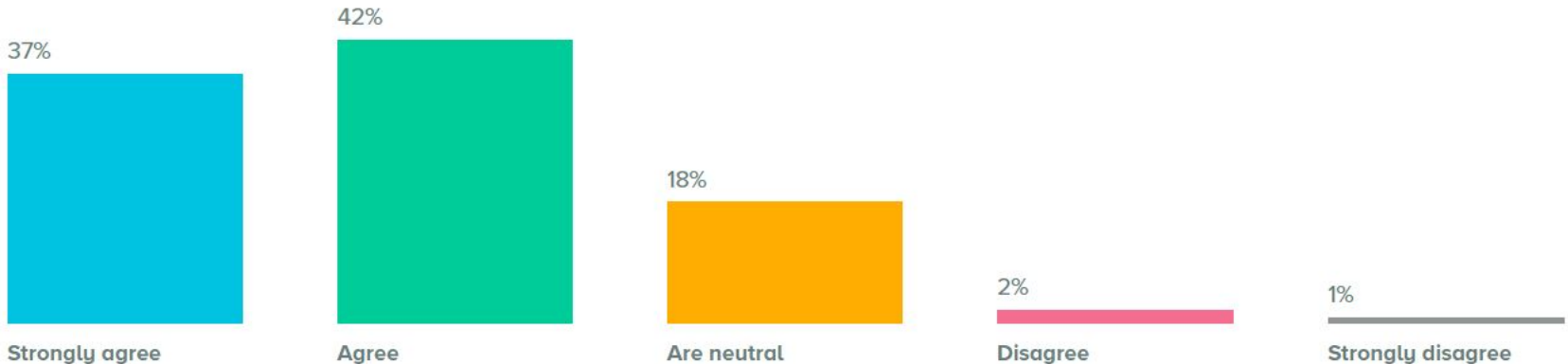
Chart

Trends

 View Insight

 Save Chart

 Share



# Beliefs

 “I think that learning is more engaging when using technology.”

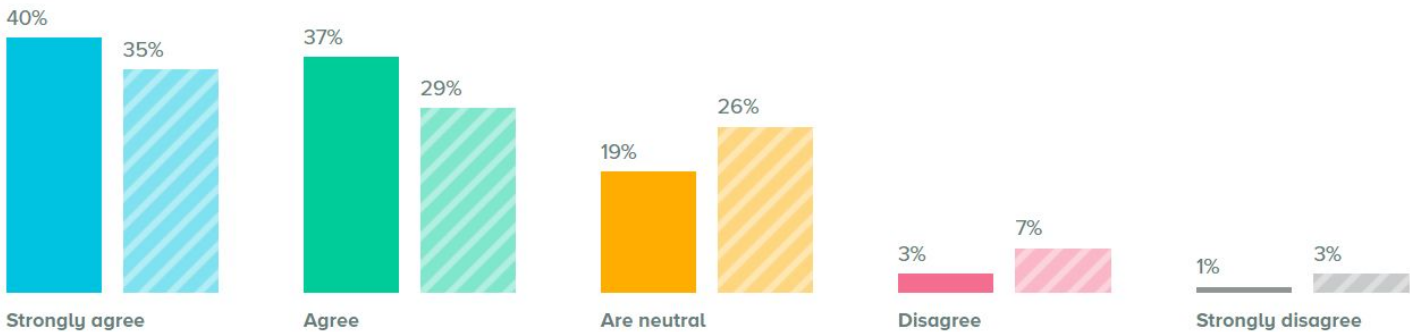
Chart

Trends

 View Insight

 Save Chart

 Share






 COMPARE


 **Teachers**  
Solids

 **Students**  
Stripes

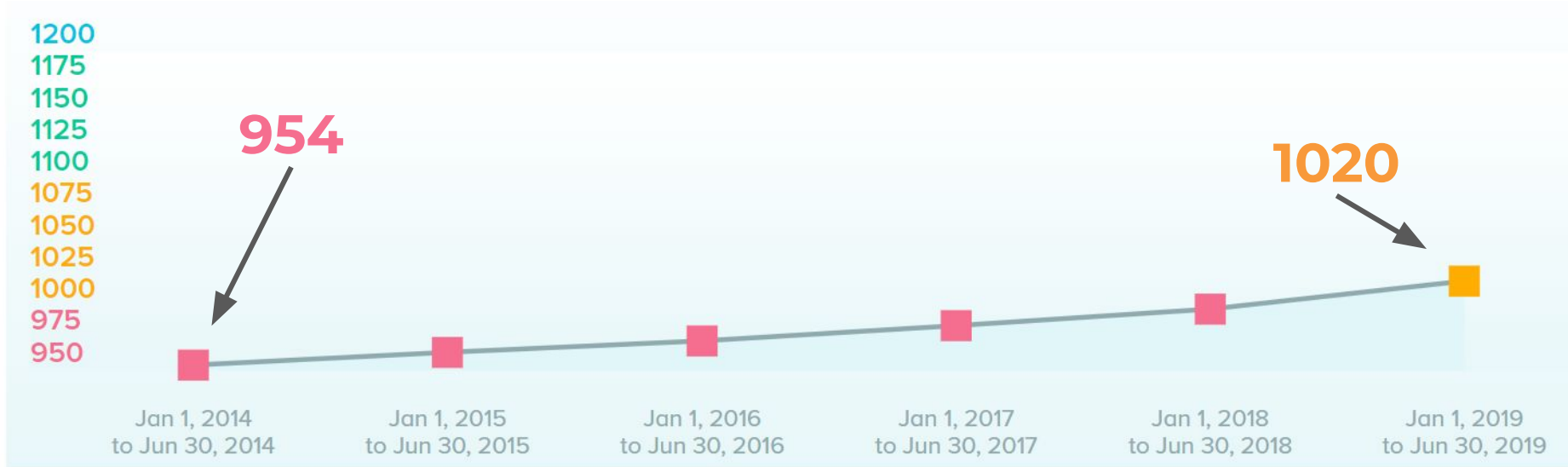




Establish an innovative  
and safe digital  
learning environment  
that enhances the 4C's



# Classroom Score 2014 - 2019



Average = +13.2 points/year

# Classroom Score Success Indicators

| Domain                      | Score | 2019 +/- | Avg. +/- |
|-----------------------------|-------|----------|----------|
| Teacher Use of the 4Cs      | 931   | +16      | +9.2     |
| Student Use of the 4Cs      | 1038  | +30      | +17.2    |
| Teacher Digital Citizenship | 1059  | +4       | +5       |
| Student Digital Citizenship | 1036  | +37      | +17.6    |
| Assessment                  | 1049  | +57      | +18.4    |

# Communication Trends

Teachers ask students to use the internet to receive information (aligns with “why” of DTEK)



Teachers ask students to receive feedback from others in the classroom

Teachers ask students to get feedback online from someone other than them



Teachers ask students to write online

# Collaboration Trends



Teachers ask students to collaborate online with classmates

Teachers ask students to collaborate online with teachers

Teachers ask students to collaborate using online documents



Teachers ask students to collaborate online with students at other schools

# Critical Thinking Trends



Teachers ask students to conduct research

Teachers ask students to collect and analyze data



Teachers ask students to identify and solve authentic problems using technology



# Creativity Trends



Teachers ask students to develop or present multimedia presentations

Teachers ask students to take digital photos or videos



Teachers ask students to create art, music, movies, or podcasts using technology



## Teachers expressed interest in the following educational technology PD topics

[View Insight](#)

[Save Chart](#)

[Share](#)



1<sup>st</sup>

41%

Multimedia Skills



2<sup>nd</sup>

37%

Classroom Management with Technology



3<sup>rd</sup>

37%

Online Tools for Critical Thinking



4<sup>th</sup>

28%

Online Collaboration



5<sup>th</sup>

19%

Productivity Software



6<sup>th</sup>

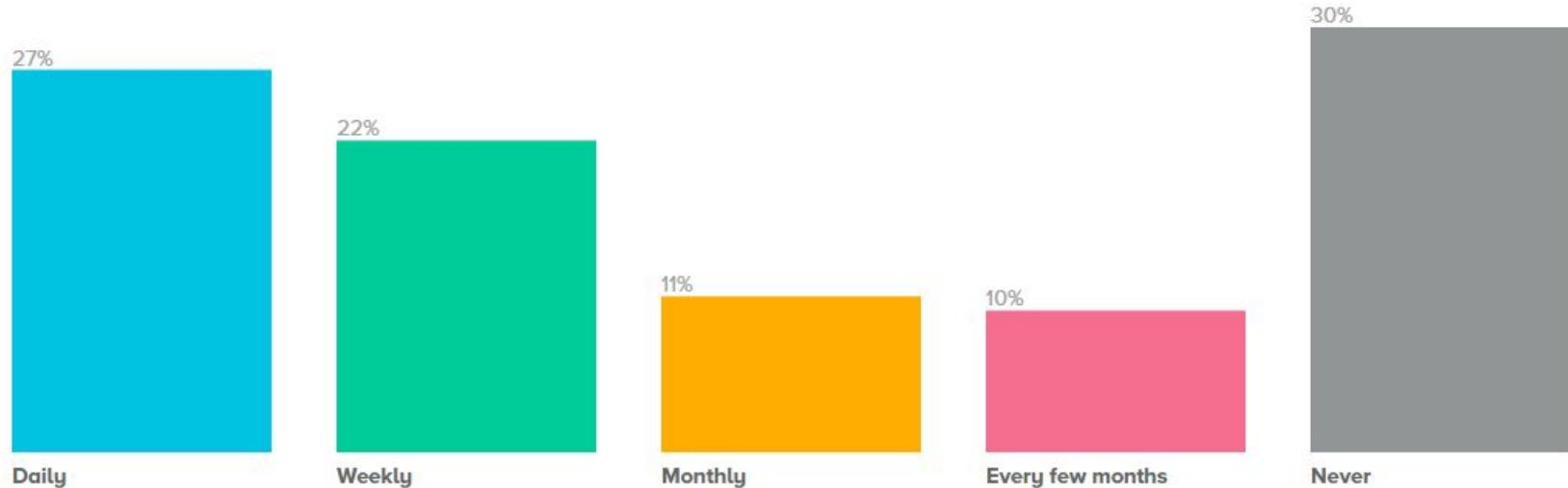
18%

Online Writing

# Custom Questions

How often do you use Google Classroom or Canvas to assign work or facilitate activities?

Save Chart Share

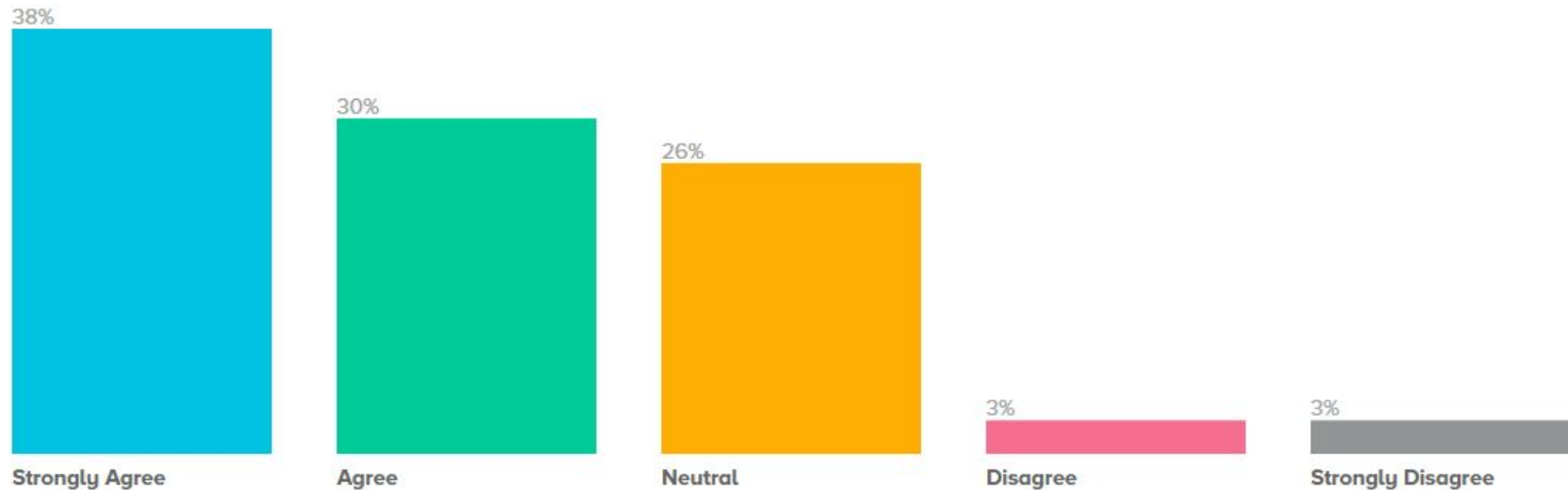


Reported by: Teachers/Administrators

# Custom Questions

The D-TEK / Chromebook initiative has been beneficial to teaching and learning.

[Save Chart](#) [Share](#)



Reported by: Teachers/Administrators



Questions ?