



Date: September 11, 2018

To: Board of Directors

From: Sean Martin

Re: Dashboard Update: Fall 2018

## **Introduction**

Members of the support office staff, site leaders, and coordinators continue to work together to tell powerful stories and propel innovation through interactive data. We are learning to use Tableau, an industry-standard visualization platform, to share evidence of Navigator's unique and important accomplishments. Creating a sustainable dashboard system will expand access to information across stakeholders, increasing our ability to harness the power of our collective expertise, backgrounds, and experiences.

Building effective visualizations is a multi-faceted process that incorporates more than the visual appearance of the dashboard itself. These facets include data integrity, sustainable methods of collecting and formatting data, conversations to promote effective design and use of data, and the development of standard procedures and conventions to ensure effective communication.

The dashboard development project is guided by a set of key values, two of which I will mention here. First, our data visuals must be interactive. When users have the freedom to filter and investigate data in their own ways, we open up new pathways to research, experimentation, and innovation. We are moving away from users as consumers of static information toward users as producers of dynamic information.

Second, dashboards must be accurate and timely. We are moving away from infrequent, annual reports of data toward real-time, fresh reports of data that optimize the power of the internet, cloud documents, and mobile technology to collect information as quickly and as accurately as possible. This timely approach to collecting evidence will connect us all to the heartbeat of the organization, empowering leaders to operate in all realms of school life, proactively rather than reactively.

Tableau dashboards are collections of reports focusing on key areas of organizational performance. These areas include traditional, quantitative measures related to compliance, external assessments, enrollment, and attendance, as well as pioneering, non-traditional measures exploring climate and culture. Key components of the dashboard under development are reviewed below. Please note that, whenever possible, student results will be disaggregated by site, grade level, gender, subgroup, and program. In addition, the dashboard project will address all elements of the CA School Dashboard.

## **Key Dashboard Components**

1. Attendance and enrollment
2. Climate and culture (behavior, staff retention, suspensions, expulsions, stakeholder surveys)

3. External assessments (SBAC, MAP)
4. Internal assessments (weekly ELA and math assessments)
5. English learner progress
6. Business and finance (including reserves and fundraising)
7. Top-tier teams (coaching, credentials)
8. Alumni tracking
9. Innovating and improving schools (expansion, greenlighting, priority tracking)

### Samples of Recent Development

Tableau visualizations feature interactive hover features that provide valuable data on-demand. Although these dynamic feature cannot be demonstrated here (on paper), the samples provide an introduction to basic layouts and capabilities.

#### A. Positive Behavior Interventions and Supports (PBIS) Rewards

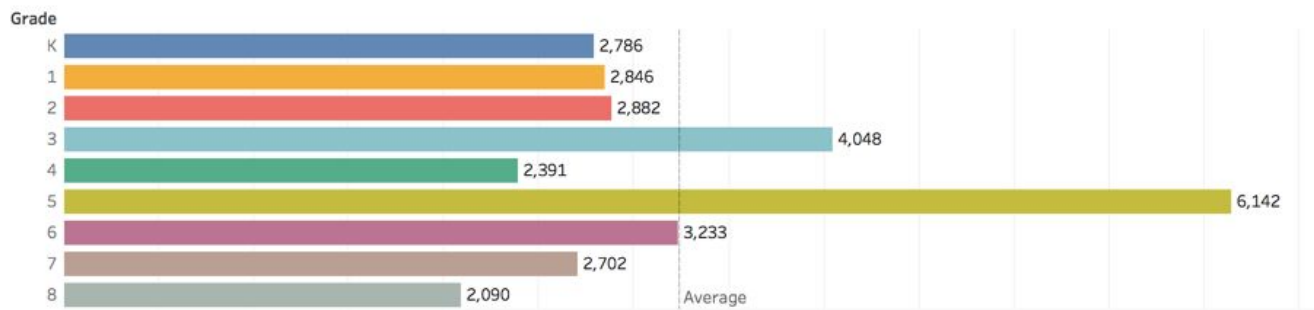
*This interactive dashboard allows viewers to instantly identify individual student reward point totals (from highest to lowest) by hovering over the multi-colored bands.*

#### PBIS Rewards: GPS

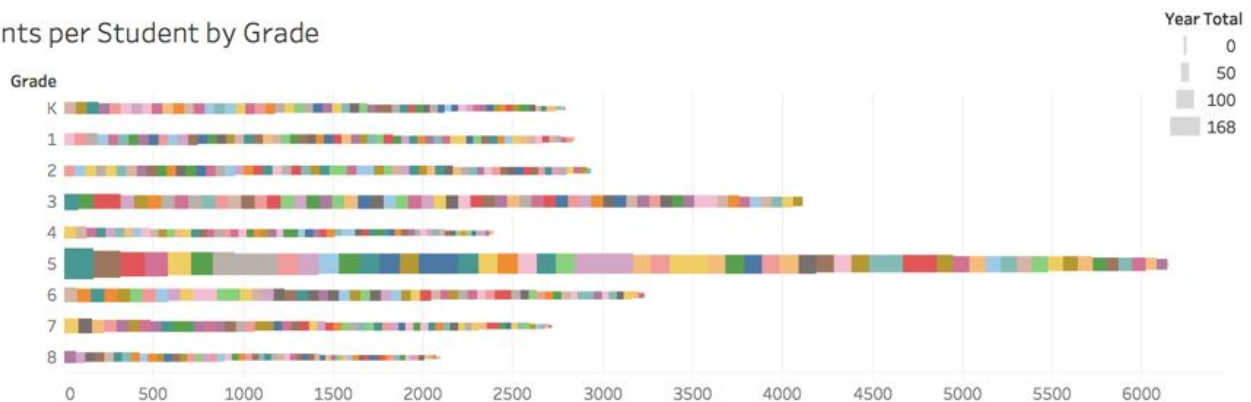
Points by Gender



Points by Grade



Points per Student by Grade

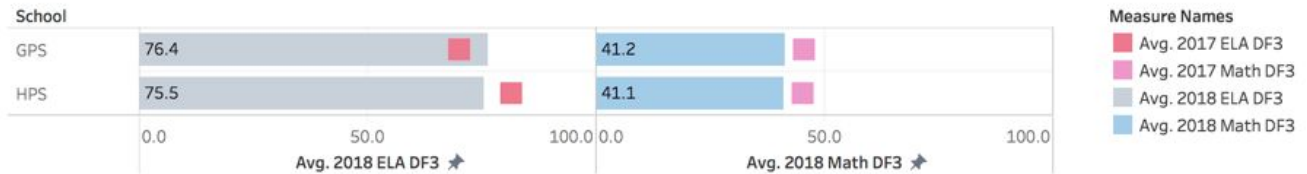


## B. SBAC Results

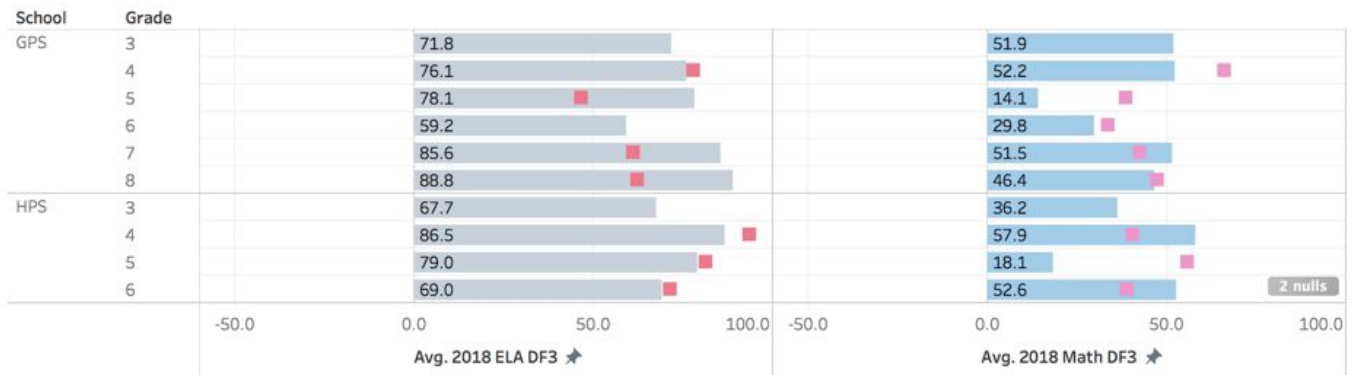
This prototype dashboard compares preliminary 2018 results to 2017 results, focusing on the important CA Schools Dashboard measure of DF3 (distance from Level 3). Level 3 is the point at which students are deemed proficient. Please note that this is preliminary data and may not reflect actual site performance. The first figure illustrates the fact that, on average, GPS students scored 76.4 points above proficiency in ELA and 41.2 points above proficiency in math. In Tableau, hovering over the squares would reveal the 2017 average.

### SBAC 2018P: Site, Grade, Gender

#### All



#### Grade Level



#### Gender



## Next Steps

Several prototypes are being tested at school sites, including reports relating to weekly assessments and behavior tracking. These components, used in the real-world, inform practice and increase efficiency. As these prototypes are tested, feedback is collected, and final versions of functioning reports will be implemented. An important element of this feedback process is expanding our capacity to gather creative inspiration, feedback, and insight from the NS board.