



The graphic above represents the performance of 1335 students from August 2017 to March 2018 who have completed at least one episode of Vital Signs. The data above represents the performance of students on five indicators of 21st century skills (*see key above*).

Findings:

Measuring student performance must be done using dynamic metrics that account for students' limited opportunities to engage on certain skills.

On average students complete just under 3 episodes (2.8) in Vital Signs, thus student performance is measured based on the percentage of the points available to them in the episodes they've completed. Vital Signs episodes do not evenly distribute skill opportunities. Measuring by percentage allows us to control for the disproportionate distribution of opportunities available to individual students, allowing for a more accurate measurement of performance than using a cumulative score.

More students on average are excelling in Leadership skill opportunities than the other 4 skills.

The average student earns 73.6% of the **Leadership & Responsibility** points available to them. Students in the 75th percentile earn 85.7% of points available. The performance gap between average students and the 75th percentile is 12.1%. The average performance gap across the four other skills is 20.6%.

Students on average perform relatively well on Initiative given their limited opportunities.

Students are performing relatively high with respect to **Initiative & Self-Direction** vs the other skills, even though there are only a maximum of 18 opportunities available (all the other categories have 22-26 opportunities). The lack of opportunities available may explain the unusually large percentage gap in points students earn between average students and those in the 75th percentile (the difference being a 30% gap).

Students across the board really struggle with Flexibility & Adaptability skills.

Students on average are struggling with **flexibility**, earning on average only 39.7% of points available. It is the only metric that the average percentage of points students earn is below 50% of those available. Despite having no abnormalities in distribution of opportunities, the majority of students are performing significantly worse on **Flexibility & Adaptability** than on other skills.