Supporting SEPs in NGSS
Science is rooted in data, so data is fundamental to all of the SEPs in NGSS. Through Tuva, students can actively engage in the practice of science while exploring real-world data. Tuva enables students to view data in various ways, ask and investigate questions, and develop graphs to illustrate processes and phenomena. STEMscopes NGSS’s data-driven activities engage students in two of the most challenging SEPs:

### Analyzing and Interpreting Data
Students select the aspects of the data they will use to investigate a scientific question or claim, determine how best to graph the data, and identify which claims are supported by the data. They describe patterns and variability in the data and interpret how those patterns might relate to the science content they are studying.

### Using Mathematics and Computational Thinking
Students apply concrete mathematical practices by adding measures of center, range limits, thresholds, confidence intervals, linear equations, and other mathematical constructs to their graphs.

Promoting Data Literacy
After developing a comfort level with data manipulation, students learn to interpret and analyze their results, building their skills in data literacy. Data literacy is the “third pillar” after numeracy and general literacy, that students need in order to understand STEM phenomena and prepare for 21st-century careers of all kinds.

With real-world datasets from primary sources like NASA, NOAA, NIH, CDC, and the US Census, Tuva’s library of information allows you to easily integrate SEPs across STEMscopes NGSS lessons for middle and high school. The interactive database features easy-to-use graphing and statistical tools that promote inquiry in your students. We are excited to offer Tuva Premium subscriptions for STEMscopes schools and districts at a special discounted price. Learn more about this partnership at stemscopes.com/tuva.