



# Technology & Engineering Literacy (TEL): LEARNING INSIDE & OUTSIDE OF SCHOOL

The 2018 National Assessment of Educational Progress TEL assessment included a student questionnaire asking students about their experiences across and within the three content areas—Technology and Society, Design and Systems, and Information and Communication Technology.

Students who reported doing TEL-related activities more often in 2018 scored significantly\* higher than those students who reported doing these activities less frequently.

## Technology and Society

### IN SCHOOL

**69%** reported at least “sometimes”<sup>1</sup> learning about or discussing **inventions that have changed the way people live.**



### OUTSIDE SCHOOL

**62%** reported at least “sometimes”<sup>1</sup> learning about or discussing **choices that people make that affect the environment.**



## Design and Systems

### IN SCHOOL

**68%** reported at least “sometimes”<sup>1</sup> learning about or discussing **designing or creating something to solve a problem.**



### OUTSIDE SCHOOL

**29%** reported **taking something apart in order to fix it or see how it works** “more than 5 times.”<sup>2</sup>



## Information and Communication Technology

### IN SCHOOL

**79%** reported at least “sometimes”<sup>1</sup> learning or discussing **how to credit others for their ideas.**



### OUTSIDE SCHOOL

**26%** reported **using a computer or other digital technology to create, edit, or organize digital media** “at least once a week.”<sup>3</sup>



## LEARN MORE:

[nationsreportcard.gov/tel/student-questionnaires/](https://nationsreportcard.gov/tel/student-questionnaires/)

NOTE: Scores are significantly different ( $p < .05$ ).

These results cannot be used to infer cause-and-effect relationships between students' activities and student achievement.

Source: National Assessment of Educational Progress (NAEP), 2018 Technology and Engineering Literacy (TEL) Assessments.

<sup>1</sup> Students' choices were: often, sometimes, rarely, and never.

<sup>2</sup> Students' choices were: never, once or twice, three to five times, more than five times.

<sup>3</sup> Students' choices were: never/almost never, a few times a year, 1-2 times a month, once or twice a week, almost every day.