

According to this data, a student's math & reading scores may be impacted by the type, budget & size of the school they attend. According to this data, a student's math & reading scores may be impacted by the type, budget & size of the school they attend.

Whether a school is charter school or district school influences students overall passing grade. Students in Charter schools have better outcomes overall than students in district schools.

Highest-Performing Schools (by % Overall Passing)

```
[30]: # Sort the schools by '% Overall Passing' in descending order and display the top 5 rows.
top_schools = per_school_summary.sort_values("% Overall Passing", ascending=False)
top_schools.head(5)
```

	School Type	Total Students	Total School Budget	Per Student Budget	Average Math Score	Average Reading Score	% Passing Math	% Passing Reading	% Overall Passing
	Cabrera High School	1858	\$1,081,356.00	\$582.00	83.061895	83.975780	94.133477	97.039828	91.334769
	Thomas High School	1635	\$1,043,130.00	\$638.00	83.418349	83.848930	93.272171	97.308869	90.948012
	Griffin High School	1468	\$917,500.00	\$625.00	83.351499	83.816757	93.392371	97.138965	90.599455
	Wilson High School	2283	\$1,319,574.00	\$578.00	83.274201	83.989488	93.867718	96.539641	90.582567
	Pena High School	962	\$585,858.00	\$609.00	83.839917	84.044699	94.594595	95.945946	90.540541

Bottom Performing Schools (by % Overall Passing)

```
[31]: # Sort the schools by '% Overall Passing' in ascending order and display the top 5 rows.
bottom_schools = per_school_summary.sort_values("% Overall Passing", ascending=True)
bottom_schools.head(5)
```

	School Type	Total Students	Total School Budget	Per Student Budget	Average Math Score	Average Reading Score	% Passing Math	% Passing Reading	% Overall Passing
	Rodriguez High School	3999	\$2,547,363.00	\$637.00	76.842711	80.744686	66.366592	80.220055	52.988247
	Figueroa High School	2949	\$1,884,411.00	\$639.00	76.711767	81.158020	65.988471	80.739234	53.204476
	Huang High School	2917	\$1,910,635.00	\$655.00	76.629414	81.182722	65.683922	81.316421	53.513884
	Hernandez High School	4635	\$3,022,020.00	\$652.00	77.289752	80.934412	66.752967	80.862999	53.527508
	Johnson High School	4761	\$3,094,650.00	\$650.00	77.072464	80.966394	66.057551	81.222432	53.539172

In addition to type – the size of a school seems to have an impact on a student's overall passing grade. Once a school is 2000 students or more the overall passing grade is considerably lower.

	Average Math Score	Average Reading Score	% Passing Math	% Passing Reading	% Overall Passing
School Size					
Small (<1000)	83.821598	83.929843	93.550225	96.099437	89.883853
Medium (1000-2000)	83.374684	83.864438	93.599695	96.790680	90.621535
Large (2000-5000)	77.746417	81.344493	69.963361	82.766634	58.286003