Facts and Trends Regarding Performance and Funding of K-12 in Kentucky

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Abstract

Kentucky's K-12 experienced an 80% in increase in per pupil funds, after inflation, from 1990 to 2019. However, there have been only modest changes in its nationally-administered test scores, and no increases in the past decade. Moreover, per pupil funding seems to exceed that of all but the most exclusive private school tuition. Just over one-half of public funds goes directly to instruction and most funds to local schools come from Frankfort. Scoring on Kentucky's own student assessment tests, the K-PREP, are higher than that of the comparable nationally-administered tests. Also, K-PREP shows improvement, while the other tests do not. About 20% of Kentucky students fall into the lowest K-PREP score category. For African American students, it is double that percentage. Kentucky's K-12 system impedes teachers and other school personnel in devising suitable programs for the varied needs of children, and inhibits parental choice among possible alternatives. A system of robust school choice and competition enables the design of programs by teachers/schools and empowers parental choice among programs to suit their children's needs.

*During 2018 and 2019, I was part of a group of citizen volunteers that informally discussed Kentucky's K-12 finances and performance with the chair of the Kentucky Board of Education's Finance Committee. This report stems from the discussions, ideas, and work of that group. I am deeply grateful to group members for all of their efforts and insights. However, I am responsible for the content of this report. Some of the material in the report was presented to the Kentucky Board of Education on December 4, 2019, as well as in other venues.

Executive Summary

This paper presents a series of facts and trends regarding K-12 in Kentucky, then draws some inferences and conclusions.

Facts and Trends

- Per-pupil funding (the total of state, local, and federal funds) rose by 80% between 1990 and 2019 after removing inflation. (Without removing inflation, it more than tripled.)
- Per pupil funding, after inflation, rose virtually every year over this time span except for the years following the Great Recession.
- National Assessment of Educational Progress (NAEP) test scores rose by small amounts since the early- to mid-1990s through 2019. Grade 4 reading rose by 4%, grade 4 math by 11.1%, grade 8 reading by 0.3%, and grade 8 math by 8.1%.
- NAEP scores have not risen at all in the last decade.
- Compared to a sampling of private school tuition rates, per pupil funding for Kentucky public schools exceeds that of all but the most exclusive private schools.
- In 2019, just over half (53.27%) of total K-12 expenditure was classified as "instructional." The remaining 46.73% was spent on a variety of non-instructional uses.
- In 2018-2019, only about one-third of K-12 funding is from local sources; 55.2% is from the state and 11.1% from the federal government.
- Kentucky's student assessment test, the K-PREP, consistently shows higher scores than the comparable NAEP tests.
- K-PREP test outcomes show substantial improvement while those for NAEP and the ACT test indicate essentially no change.
- Roughly one-fifth of Kentucky students score in the lowest possible score category ("novice") for 4th and 8th grade reading and math. About 30% of students score in the lowest possible category on the corresponding NAEP tests, except for grade 4 math.
- The percent of African American students who score in the lowest possible category is roughly double that of students as a whole.

Inferences and Conclusions

- The high and increasing cost of K-12, coupled with its weak performance indicate the need for fundamental reform based on sound principles.
- Due to the heterogeneity of students and their needs, there is no single "best practice" that can be planned and implemented by a central authority.
- Devolving decision making regarding schools to those most knowledgeable about the school children and their circumstances enables the evolution of better-suited programs. Those with the most intimate knowledge are parents, teachers, and school personnel.
- This is attained by:
 - Schools having the authority to design programs to meet the needs of their students and communities, with accountability and incentives to do it well.
 - Parents having choice regarding where to send their children to school, where funding follows the student. This provides incentives to schools to offer effective programs.
- This is essentially the system of choice and competition that works well in the provision of many other goods and services.

I. Overarching Trends in Funding and Performance

A. The Funding of Kentucky Public Schools, 1990-2019

In the 1989-1990 school year, per pupil funds, inclusive of state, local, and federal, for K-12 was \$4,014. Adjusted for inflation and expressed in 2019 dollars, this is \$7,852. By 2018-2019, per pupil funding was \$14,115. Thus, taking out inflation, funding was 80% higher than in 1989-1990.

Figure 1 illustrates this. After inflation, per pupil increased virtually every year except during the time period near the Great Recession.

Funding for Kentucky Schools, 1990-2019 Per Pupil Funds, K-12 (w/inflation removed) 15,000 14,000 13,000 12,000 11,000 10,000 9,000 8,000 7,000

Figure 1

Sources: See appendix Table A1.

B. Kentucky Students' Achievement Test Score Performance

The achievement test scores used are the National Assessment of Educational Progress (NAEP) scores for 4th and 8th grade reading and math. This is often referred to as the "Nation's Report Card." Though the goal of education is to help attain success in life, acquiring the basic reading and math skills that these tests measure is critical preparation for this objective,

Since 2003, each of these tests has been administered in every odd year. Prior to that, they were given intermittently. Figure 2 summarizes the changes in the average score for Kentucky students from the inception of each test, as well as over the past decade.¹

None of these test scores have improved in the 2009 to 2019 decade and three of the four declined. Moreover, long-term changes since the 1990s been relatively small, ranging from 0.26% to 11.1%.

Percent Change in NAEP Scores 28.00% 24.00% 20.00% 16.00% 11.10% 12.00% 8.10% 8.00% 4.00% 4.00% 0.26% 0.00% 0.00% -0.46% -1.40% -4.00% -2.10% Grade 4 Reading Grade 4 Math Grade 8 Math Grade 8 Reading ■ From Test Inception 2009-2019

Figure 2
NAEP Score Changes

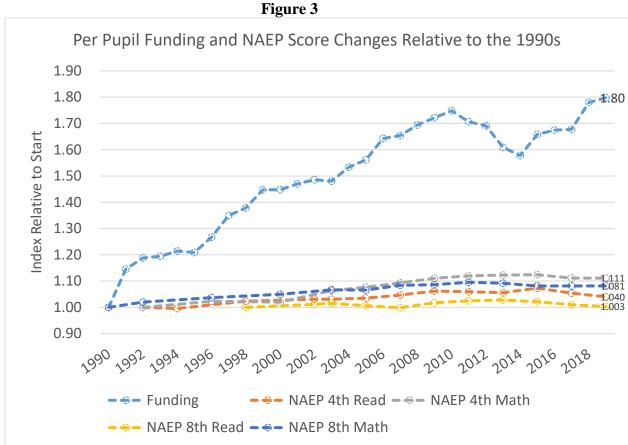
Source: See appendix Table A2.

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¹ The grade 4 reading and math tests began in 1992. The grade 8 reading test began in 1998 and grade 8 math in 1990.

C. Illustrating the Comparison of Funding Changes to Test Score Changes

One way to compare funding to test score changes is to plot each data series showing an index of its changes relative to a starting year. Figure 3 presents this. Both grade 4 reading and math start in 1992, 8th grade reading and math start in 1998 and 1990, respectively, and the starting point for per pupil funding is 1990. Each year's value is expressed relative to its beginning year. Thus, each data series begins at 1.00 and subsequent values indicate the percent increase since the data began. For example, a subsequent value of 1.20 indicates a 20% increase from the starting year.



Source: Data from appendix Tables A1 and A2.

The figure shows the time path of the index data series as well as their 2019 values. For funding (the light blue line), its 2019 value is 1.80, indicating an 80% increase per pupil (after removing inflation) since 1990. The NAEP test score index values are much smaller, ranging from 1.003 to 1.111. As illustrated by the figure, funding increases far outstrip any of the test score increases.

II. Other Aspects of K-12 Funding

A. Recent Kentucky K-12 Funding Compared to Private School Tuition

Table 1 shows per pupil funding for Kentucky schools as a whole, as well as for selected individual school districts. This is the total of state, local, and federal funding for districts during the 2018-2019 academic year. This is the latest year available from the Kentucky Department of Education's website.²

A sampling of districts with high levels of funding are shown, along with funding for the two largest school districts (Jefferson and Fayette Counties), some districts near the state average funding of \$14,398, and those at or near the bottom in funding. The highest funded district is Anchorage Independent with \$24,206 per pupil. Note that some rural districts are near the top in funding with over \$20,000 per pupil, i.e., Owsley County and Robertson County. Jefferson County, with nearly \$17,000 per pupil, has well above average funding, as does Fayette County with over \$16,000 per pupil. The least funded districts have over \$12,000 of per pupil funding, with Warren County being the lowest.

<u>ators.aspx</u>. This also is a source for other data and is listed in appendix Table A1.

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 $^{^2}$ This is the source of the some Table 1 data, as well as the other funding data: $\frac{\text{https://education.ky.gov/districts/FinRept/Pages/Fund\%20Balances,\%20Revenues\%20and\%20Expenditures,\%20Chart\%20of\%20Accounts,\%20Indirect\%20Cost\%20Rates\%20and\%20Key%20Financial\%20Indirect\%20Cost\%20Rates\%20and\%20Key%20Financial%20Indirect%20Cost%20Rates\%20and%20Key%20Financial%20Indirect%20Cost%20Rates%20and%20Key%20Financial%20Indirect%20Cost%20Rates%20and%20Key%20Financial%20Indirect%20Cost%20Rates%20Accounts%20Cost%20Rates%20Accounts%20Cost%20Rates%20Accounts%20Cost%20Rates%20Accounts%20Cost%20Rates%20Accounts%20Cost%20Rates%20Accounts%20Cost%20Rates%20Accounts%20Cost%20Rates%20Accounts%20Cost%20Rates%20Accounts%20Cost%20Rates%20Accounts%20Cost%20Accounts%20A$

Table 1
Per Pupil Funding, Selected Jurisdictions, 2018-2019

Public Jurisdiction	<u>Per Pupil Funds, 2018- 2019</u>
Kentucky	\$14,398
Anchorage Independent	\$24.206
Owsley County	\$21,161
Robertson County	\$20,086
Newport Independent	\$19,605
Jefferson County	\$16,858
Wolfe County	\$16,391
Fayette County	\$16,151
Letcher County	\$14,578
Clark County	\$14,388
McCreary County	\$14,311
Anderson County	\$12,895
Oldham County	\$12,645
Laurel County	\$12,527
Warren County	\$12,043

Note: Of Kentucky's total per pupil funding, \$1,603 is accounted for by student food and transportation expenses.

For comparison purposes, Table 2 presents selected private school tuition rates. This is the primary source of funds for private schools, so can be compared to the per pupil funding levels for public schools.³ The table is broken into two parts: the upper part for elementary school rates and the lower part for high schools. This is a sampling of schools across the state and across the range of tuition costs. It is not a full sample but my judgment is that it is a good representation of private school tuition.

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³ Note that public K-12 funding is for the 2018-2019 academic year, while the private school tuition rates are for 2020-2021. A better comparison would be to the 2020-2021 public K-12 funding level. This would be higher than the figures reported but is not available.

Table 2: Selected Private School Tuition Rates, 2020-2021

Selected Private Schools	Tuition , 2020-21	Comments
Primary		
Christian Academy of Carrollton	\$3,250	primary and middle school rate
Christian Fellowship School (Benton)	\$3,725	
Cornerstone Christian Academy (London)	\$4,500	
St. Joseph Academy (Walton)	\$4,935	primary and middle school rate
Foundation Christian Academy (Bowling Green)	\$5,590	
Highlands Latin School (Louisville)	\$7,675	
Christ the King (Lexington)	\$9,795	non-Catholic rate, primary and middle school
Lexington Christian Academy	\$10,497	grade 4-5 rate
Northern Kentucky Montessori Academy	\$11,266	
The Lexington School	\$23,470	primary and middle school rate
High School		
Christian Academy of Carrollton	\$3,450	
Somerset Christian School	\$4,600	same rate for K-12
Lexington Latin School	\$5,745	middle and high school rate
Foundation Christian Academy (Bowling Green)	\$5,875	
Frankfort Christian Academy	\$6,960	same rate for K-12
Bethlehem High School (Bardstown)	\$8,250	
Newport Central Catholic High	\$8,340	non-Dicoesan rate
Calvary Christian School (Covington)	\$8,900	
Trinity Christian (Lexington)	\$10,600	middle and high school rate
Lexington Catholic High School	\$12,412	non-Catholic rate
Lexington Christian Academy	\$12,870	
St. Xavier (Louisville)	\$14,966	
Sayre School (Lexington)	\$25,300	

Sources: See websites in appendix Table A3.

Tuition is typically much lower than the per pupil public school funding levels, and often markedly lower. The only exceptions are the tuition levels for the most exclusive private schools. High school is the most expensive level of schooling and most of the private high school rates are much lower than public per pupil funding for all levels of schools. Public schools funds do, however, include the cost of transportation and food programs for students, which was \$1,603 per pupil in 2018-2019.

B. Funding for Instructional Purposes in Kentucky Public Schools

The Kentucky Department of Education categorizes school expenditures by "instruction" expenses and a host of other categories. The Kentucky Department of Education Uniform Chart of Accounts define expenditures for instruction as: "Activities for instruction that dealing[sic] directly with the interaction between teachers and students. Teaching may be provided for students in a classroom, in another location such as a home or hospital, and in other learning situations such as those involving cocurricular activities. It may also be provided through some other approved medium, such as television, radio, computer, the Internet, multimedia, telephone, and correspondence, that is delivered inside or outside the classroom or in other teacher-student settings. Included here are the activities of aides or classroom assistants of any type who assist in the instructional process."⁴

Figure 4 depicts the percent of total K-12 expenditure spent on "instruction." As seen, just over half, 53.27%, is utilized on instruction. Appendix Table A4 has more detail. The remaining 46.73% is spread among many categories, where the major ones are student support services, instructional staff support services, district administration, school administration, business support service, plant operations, pupil transportation, food services, and debt service.

Figure 4

K-12 Expenditure Percentages, 2018-2019

All Else
46.73%

Instruction
53.27%

Source: See appendix Table A4.

C. Sources of Funds: State, Local, and Federal

Figure 5 shows the source of funds for Kentucky's public schools for 2018-2019. Panel (a) is the percent from each source and panel (b) is the total funding amounts. As is seen, local districts provide about one-third of school funding, with the other two-thirds from the state and federal governments. State government is the dominant source of funds, accounting for 55.2%.

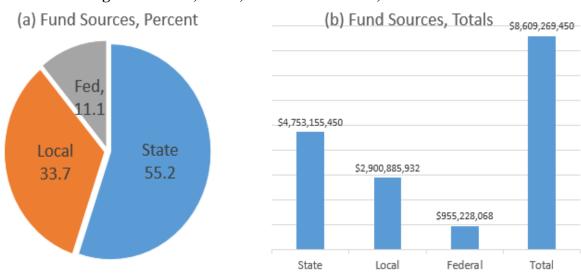


Figure 5: State, Local, and Federal Funds, 2018-2019

Source: See appendix Table A1 regarding 2018-2019 sources.

III. Aspects of Student Performance

A. Comparing K-PREP Scores, ACT Scores, and NAEP Scores

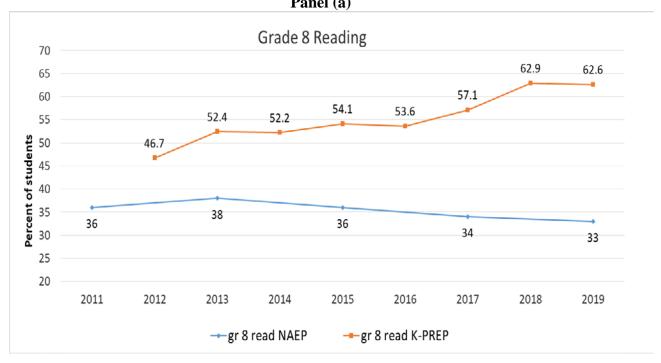
Kentucky uses the K-PREP test to assess student progress among public school students. K-PREP has been administered every year from 2012 to 2019. This section tracks trends in the K-PREP during that time for 4th and 8th grade reading and math. It is compared to trends in NAEP scores for those same grades and subjects, as well as to ACT test score trends given to 11th graders. The ACT test scores are available for each of these years. The NAEP test is given in odd years, so we make comparisons to Kentucky's NAEP test scores for odd years from 2011 to 2019.⁵

Panel (a) of Figure 6 shows the comparison of K-PREP and NAEP for grade 8 reading. For K-PREP (shown in orange), the figure plots the percent of students scoring "proficient and distinguished." For NAEP (in blue), the percent of students scoring "proficient and advanced" is plotted. K-PREP shows a much higher percent of proficient and distinguished than NAEP shows for proficient and advanced. Moreover, K-PREP displays substantial improvement until toward the end of the time period. NAEP scoring shows little change and even some decline. This same basic pattern in repeated for each of the other comparisons; grade 8 math (panel (b)) and grade 4 reading and math (panels (c) and (d)). Panel (e) of Figure 6 plots the statewide ACT average score. It shows a slight increase, followed by a decrease, over this period.

Overall, K-PREP scoring is considerably above than that of NAEP tests. Also, K-PREP test results show substantial increases over this time frame. However, NEAP test and ACT tests indicate very little change in student outcomes.

⁵ Appendix Table A5 presents the underlying data.

Figure 6: Grade 8 Reading, K-PREP Percent Proficient and Distinguished (orange),
NAEP Percent Proficient and Advanced (blue)
Panel (a)



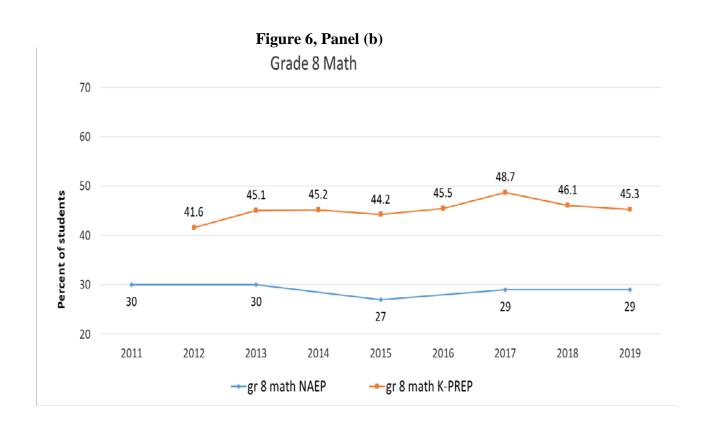


Figure 6, Panel (c)

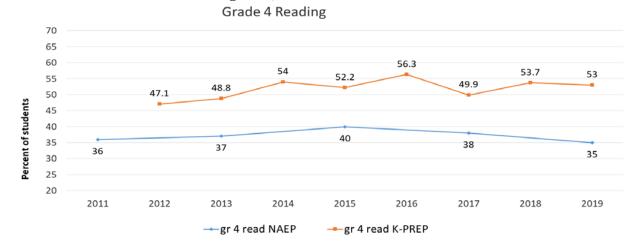


Figure 6, Panel (d)

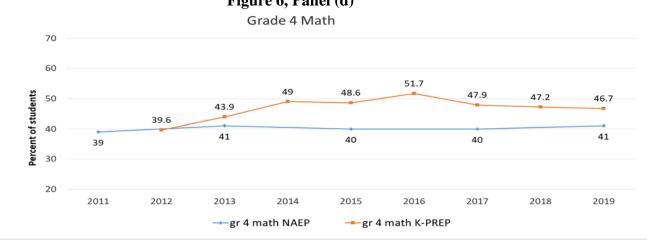


Figure 6, Panel (e)

ACT Composite Score

22 21.5 21 20.5 9 20 19.5 19.8 19 19.5 19.4 19.4 19.3 19.2 18.5 19 19 18 17.5 17 2012 2013 2014 2015 2016 2017 2018 2019

B .Poorly Performing Students

This section examines the percentages of students who score in the worst category on the K-PREP and NEAP reading and math tests in the 4th and 8th grades. For K-PREP, the lowest scoring category is "Novice." This is defined as: "A novice student has a minimal understanding of the Kentucky Academic Standards at grade level. . . "6 NAEP's lowest category is "Below Basic." Basic is defined as: "'This level denotes partial mastery of prerequisite knowledge and skills . . . for . . . *NAEP Proficient* Below Basic fails to attain this partial mastery. Naturally, high percentages in these categories are negative outcomes.

Figure 7 shows these percentages for the 2019 tests. For grade 4 reading, 19.2% of students are in the lowest K-PREP category and 33% score in the lowest NAEP category. This likely means that one-fifth to one-third of 4th graders cannot read.

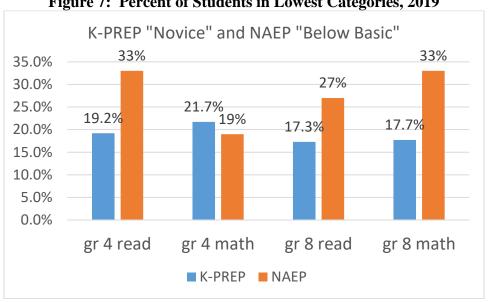


Figure 7: Percent of Students in Lowest Categories, 2019

Source: See appendix Table A6.

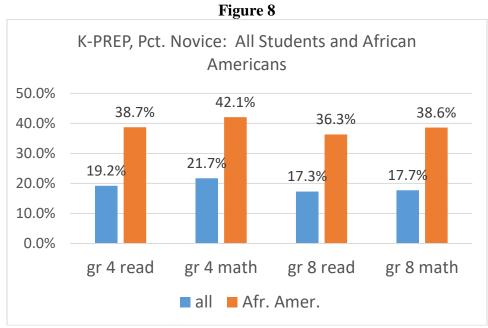
⁶ Definitions and discussion of the scoring categories is at https://www.kentuckyteacher.org/news/2019/10/lewis-addresses-myths-about-kentuckys-5-staraccountability-system/.

⁷ See https://www.nagb.gov/news-and-events/news-releases/2018/release-20181119-naep-achievementlevels.html.

For the other K-PREP tests, the percentages in the novice category are about the same, or a little below, as for grade 4 reading. Regarding NAEP tests, with the exception of grade 4 math, the percentages in the lowest category are much greater than for K-PREP.

C. African Americans Students

African American students fare even worse than average in these respects. Figure 8 shows the comparison of the percent of African Americans in the lowest category to all students for K-PREP. For grade 4 reading the percent of novice African American students is about double that for all students: 38.7% for African Americans compared to 19.2% for all students. The comparison for the other tests is very similar.



Source: See Appendix Table A7.

IV. Inferences and Conclusions

The cost of Kentucky's public K-12 is high and has risen for decades. This increased cost has not been matched by improved student performance. Though there are surely some

good public schools and programs, the system as a whole has shown little progress for the past two to three decades and, of late, exhibits declining performance. The key question for any reform is how to develop a system that generates good outcomes at reasonable cost.

The present system is dominated by funding, initiatives, and rules from Frankfort and, to some extent, from Washington. Additionally, local school districts are often political bureaucracies that have their own sets of rules and mandates. The facts and trends documented above show that this system does not work. It is important to draw upon basic economic principles to understand why this is so and how to correct it.

To attain an effective system, parties with relevant knowledge need to have decisionmaking authority. Moreover, decision makers need to be held accountable for their decisions
and incentivized to make good ones. In applying these principles to schools, it is critical to
recognize the heterogeneity of students, families, communities, and personal circumstances that
determine the appropriate educational approach. Though there are some basics of a good
education and essentials of good pedagogy, there is no single "best practice" that works for all.
Thus, the goal of a good system is to enable implementation of programs that work in their
specific circumstances, not to mandate particular programs for all. Those with the best
knowledge of the school children are parents, teachers, and local school personnel who deal with
the children nearly every day and know them and their circumstances.

Enabling the use of this knowledge is accomplished by the following: (i) Individual schools (i.e., teachers and school personnel) determine the programs, curriculum, and educational approach to take, and (ii) parents choose among schools for their children's education, with the funding following the student. Point (i) enables schools to tailor programs to various students' and communities' needs. Point (ii) empowers parents to use their knowledge

and love of their children to select among schools, and also serves as accountability and an incentive for schools to offer effective programs. Schools that fail to do so will not attract students and funding. Additionally, it is important to remove impediments to schools in opening to serve a clientele or community, and existing schools should not be artificially propped up if they cannot attract students. This helps ensure that parents have meaningful choices and that schools have to compete with one another.

This, to a large degree, is absent in the current system. Many local schools have little significant competition. Moreover, garnering more school funding typically entails lobbying Frankfort, or the local school board, rather than satisfying parents.

The forces of choice and competition noted above are powerful ones that have served us well in the provision of many critical goods and services including food, housing, clothing, fuel, automobiles, and numerous others. They also can serve us well in providing schooling. There are other items that can work to enhance choice and competition, such as increased transparency and educational-effectiveness research. However, they serve as complements to choice and competition, not substitutes for them.

There are a host of policy initiatives that move toward embracing choice and competition. They include voucher programs, educational savings accounts, charter schools, individual tax credits, and scholarship tax credits. Programs of this nature have been implemented elsewhere, have helped embrace choice and competition, and generally are shown to be effective.

Appendix

Table A1: Data Underlying Per Pupil Funding

	Tot. K-12 Fund	s Avg. Daily	F	Per Pupil	Consumer	Per	Pupil Funding
Year	(thousand \$)	Attendance		Funding Price Index		(w	/o inflation)
1990	\$ 2,287,15	569,795	\$	4,014	130.7	\$	7,852
1991	\$ 2,729,83	11 569,713	\$	4,792	136.2	\$	8,994
1992	\$ 2,939,3	574,226	\$	5,119	140.3	\$	9,328
1993	\$ 3,071,1	72 579,446	\$	5,300	144.5	\$	9,377
1994	\$ 3,194,40	578,020	\$	5,526	148.2	\$	9,534
1995	\$ 3,240,92	26 572,952	\$	5,657	152.4	\$	9,489
1996	\$ 3,492,89	90 571,934	\$	6,107	156.9	\$	9,951
1997	\$ 3,794,12	29 570,431	\$	6,651	160.5	\$	10,595
1998	\$ 3,932,00	569,694	\$	6,902	163.0	\$	10,826
1999	\$ 4,210,79	93 568,603	\$	7,406	166.6	\$	11,364
2000	\$ 4,330,63	19 565,693	\$	7,655	172.2	\$	11,366
2001	\$ 4,509,89	93 564,198	\$	7,993	177.1	\$	11,539
2002	\$ 4,650,14	16 566,451	\$	8,209	179.9	\$	11,666
2003	\$ 4,764,25	53 569,538	\$	8,365	184.0	\$	11,623
2004	\$ 5,077,7	72 570,911	\$	8,894	188.9	\$	12,037
2005	\$ 5,379,25	57 574,380	\$	9,365	195.3	\$	12,260
2006	\$ 5,909,93	580,937	\$	10,173	201.6	\$	12,901
2007	\$ 6,141,24	45 583,102	\$	10,532	207.342	\$	12,986
2008	\$ 6,561,26	585,775	\$	11,201	215.303	\$	13,300
2009	\$ 6,641,12	28 585,556	\$	11,342	214.537	\$	13,515
2010	\$ 6,873,28	36 587,102	\$	11,707	218.056	\$	13,726
2011	\$ 6,993,34	19 593,323	\$	11,787	224.939	\$	13,396
2012	\$ 7,086,73	17 594,440	\$	11,922	229.594	\$	13,275
2013	\$ 7,120,96	618,774	\$	11,508	232.957	\$	12,630
2014	\$ 7,137,14	45 622,088	\$	11,473	236.736	\$	12,390
2015	\$ 7,453,9	76 617,642	\$	12,068	237.017	\$	13,018
2016	\$ 7,634,7	58 618,606	\$	12,342	240.007	\$	13,147
2017	\$ 7,782,86	616,218	\$	12,629	245.120	\$	13,172
2018	\$ 8,433,30	614,301	\$	14,068	251.107	\$	13,977
2019	\$ 8,609,20	609,955	\$	14,249	255.657	\$	14,115

Sources: Funding and attendance data, 1987-2017: https://nces.ed.gov/programs/digest/. Funding data, 2018-2019:

 $\frac{\text{https://education.ky.gov/districts/FinRept/Pages/Fund\%20Balances,\%20Revenues\%20and\%20Expenditures,\%20Chart\%20of\%20Accounts,\%20Indirect\%20Cost\%20Rates\%20and\%20Key\%20Financial\%20Indicators.aspx.}$

Attendance data, 2018-2019: https://education.ky.gov/districts/enrol/Pages/Superintendents-Annual-Attendance-Report-(SAAR).aspx.

Consumer Price Index: https://www.bls.gov/data/.

Table A2: Kentucky 4th and 8th Grade Reading and Math Average NAEP Scores

Year Reading Math Reading Math 1990 257 1991 257 1991 213 215 262 1993 212 29 267 1995 220 267 297 1996 220 267 299 1999 218 262 29 2000 219 270 200 2001 219 265 270 2001 219 265 274 2004 220 231 264 274 2004 220 231 264 274 2006 2007 222 235 262 279 2008 2009 226 239 267 279 2010 2011 225 241 269 282 2012 2013 224 241 270 281 2014 2015 228 242 268		NAEP Grade 4	NAEP Grade 4	NAEP Grade 8	NAEP Grade 8
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2016 2017 2017 224 2018 265	2014				
2017 224 239 265 278 2018	2015	228	242	268	278
2018	2016				
	2017	224	239	265	278
2019 221 239 263 278	2018				
	2019	221	239	263	278

Source: https://www.nationsreportcard.gov/ndecore/xplore/NDE.

Table A3: Source Websites for Private School Tuition Rates

School	<u>Website</u>
Christian Academy of	http://nebula.wsimg.com/e143cf9dfa15997df3ec9148fab43dd8?
Carrollton	AccessKeyId=1343D5B4ADF35A2819A0&disposition=0&alloworigin=1
Christian Fellowship School	http://www.christianfellowshipschool.org/editoruploads/files/Fee Sch
(Benton)	edule 20-21.pdf
Cornerstone Christian Academy	https://www.cornerstoneky.com/tuition
(London)	
St. Joseph Academy (Walton)	https://sjawalton.com/wp-content/uploads/2020/04/2020-2021-
	<u>Tuition-Rates.pdf</u>
Foundation Christian Academy	http://www.fcafalcons.com/wp-content/uploads/2020/03/2020-2021-
(Bowling Green)	<u>Tuition-Fees.jpg</u>
Highlands Latin School	https://thelatinschool.org/admissions/tuitionandfees/
(Louisville)	
Christ the King (Lexington)	https://ctkschool.net/application/files/1015/8284/0250/CKS Tuition I
	nformation 2020-21.pdf
Lexington Christian Academy	http://www.lexingtonchristian.org/admissions/tuition.cfm
Northern Kentucky Montessori	https://drive.google.com/file/d/1jN5J5sO_1VuJ4qZINgBDh3A8aBll7_ur
Academy	<u>/view</u>
The Lexington School	https://www.thelexingtonschool.org/tuition-schedule
Somerset Christian School	https://somersetchristian.com/tuition-and-financial-aid/
Lexington Latin School	http://www.lexingtonlatinschool.com/admissions.html
Frankfort Christian Academy	https://filecabinet9.eschoolview.com/A3358F45-40E0-4D3C-85F7-
-	C9AE0867FBBE/2020_2021TuitionandFees.pdf
Bethlehem High School	https://www.bethlehemhigh.org/apps/pages/index.jsp?uREC_ID=1175
(Bardstown)	215&type=d&pREC_ID=1423513
Newport Central Catholic High	https://static1.squarespace.com/static/586fb6c5414fb5bea0aa8fe5/t/
	<u>5ecd31592dd571390ca7a028/1590505818029/2020-2021+Tuition.pdf</u>
Calvary Christian School	https://s3.amazonaws.com/media.cloversites.com/5a/5a66b655-
(Covington)	92ba-4de6-a494-7c30cd6f3924/documents/Tuition_2020-
	21 9 month.pdf
Trinity Christian (Lexington)	https://www.trinitylex.org/tuition-financial-aid
Lexington Catholic High School	https://www.lexingtoncatholic.com/apps/pages/tuitionassistance
St. Xavier (Louisville)	https://www.saintx.com/admissions/tuition-information
Sayre School (Lexington)	https://www.sayreschool.org/page.cfm?p=4415

Table A4: 2018-2019 K-12 Expenditure Categories

Expenditure Category	<u>Amount</u>	Percent
Instruction	\$4,513,569,932	53.27
Student Support	\$381,850,510	4.51
Services		
Instruction Staff	\$414,290,938	4.89
Support Services		
District Admin.	\$167,969,572	1.98
School Admin.	\$461,355,976	5.44
Business Support	\$212,709,902	2.51
Services		
Plant Operations	\$665,226,430	7.85
Pupil Transportation	\$476,292,863	5.62
Other Support Services	\$246,861	0.00
Food Service	\$480,986,580	5.68
Day Care Operations	\$68,797	0.00
Community Services	\$72,368,456	0.85
Adults Education	\$324,852	0.00
Operations		
Other Non-Instruction	\$20,703	0.00
Facilities Land/Site	\$472,353	0.01
Acquisition		
Facilities Land	\$485,833	0.01
Improvement		
Facilities Architecture	\$4,815,799	0.06
And Engineering		
Facilities Education	\$20,591	0.00
Specification		
Facilities Building	\$3,500	0.00
Acquisition &		
Construction		
Facilities Site	\$567,456	0.01
Improvement		
Facilities Building	\$473,051	0.01
Improvement		
Other Facilities	\$0	0.00
Acquisition		
Debt Service	\$619,238,826	7.31
Total Expenses	\$8,473,359,767	100.00

Source: https://education.ky.gov/districts/FinRept/Pages/Fund%

20Balances,%20Revenues%20and%20Expenditures,%20Chart%20of%20Accounts,%20Indirect%20Cost %20Rates%20and%20Key%20Financial%20Indicators.aspx.

Note: Fund transfers are not included in table.

Table A5: NAEP Percentages Proficient and Advances; K-PREP Percentages Proficient and Distinguished; ACT Scores

	Grade 4 Reading		Grade 4 Math		Grade 8 Reading		Grade 8 Math		
	NAEP Pct.	K-PREP Pct.							
Year	Proficient & Adv.	Proficient & Disting.	ACT Score						
2011	. 36		39		36		30		
2012		47.1		39.6		46.7		41.6	19
2013	37	48.8	41	43.9	38	52.4	30	45.1	19.2
2014		54		49		52.2		45.2	19.4
2015	40	52.2	40	48.6	36	54.1	27	44.2	19.4
2016		56.3		51.7		53.6		45.5	19.5
2017	38	49.9	40	47.9	34	57.1	29	48.7	19.8
2018		53.7		47.2		62.9		46.1	19.3
2019	35	53	41	46.7	33	62.6	29	45.3	19

Sources: https://applications.education.ky.gov/SRC/DataSets.aspx,

https://openhouse.education.ky.gov/Home/SRCData https://www.nationsreportcard.gov/ndecore/xplore/NDE.

Table A6: NAEP Percentages Below Basic; K-PREP Percentages Novice, All Students

	Grade 4 Reading		Grade 4 Math		Grade 8 Reading		Grade 8 Math	
	NAEP Pct.	K-PREP Pct.	NAEP Pct.	K-PREP Pct.	NAEP Pct.	K-PREP Pct.	NAEP Pct.	K-PREP Pct.
Year	Below Basic	Novice	Below Basic	Novice	Below Basic	Novice	Below Basic	Novice
2011	28		15		21		28	
2012		24.9		21.5		22.1		20.8
2013	29	26.9	16	23.2	20	24.4	29	15.9
2014		20.5		18.5		23.8		16.5
2015	25	18.8	16	20.4	22	21.8	32	15.1
2016		19.7		17.5		23.3		17.6
2017	30	21.7	20	17.9	25	25.8	35	18
2018		18.6		21.4		23		17
2019	33	19.2	19	21.7	27	21.5	33	17.7

Source: See Table A5.

Table A7: NAEP Percentages Below Basic; K-PREP Percentages Novice, African Americans

	Grade 4 Reading		Grade 4 Math		Grade 8	Grade 8 Reading		Grade 8 Math	
	NAEP Pct.	K-PREP Pct.	NAEP Pct.	K-PREP Pct.	NAEP Pct.	K-PREP Pct.	NAEP Pct.	K-PREP Pct.	
Year	Below Basic	Novice	Below Basic	Novice	Below Basic	Novice	Below Basic	Novice	
2011	48		31		42		53		
2012		43.4		38.8		48.3		36.6	
2013	52	48.7	35	38.9	44	43.4	51	31	
2014		39.5		34.9		37.2		32.4	
2015	41	36.3	32	35.2	42	38.5	57	30.2	
2016		39.9		34.4		41.6		37	
2017	53	43.4	45	35.7	46	45	63	37	
2018		38		43.8		36.5		36	
2019	57	38.7	37	42.1	51	36.3	57	38.6	

Sources: See Table A5.