

Battelle
for Kids
Bringing clarity to
school improvement

Preparing for Your Future
Mark Hartman, Battelle for Kids

Learners

“In times of change, learners inherit the Earth while the learned find themselves beautifully equipped to deal with a world that no longer exists.”

Eric Hoffer, American Social Writer

Thank you!



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Hope!

Jobs

1 million dollars for ever student

\$10,000 - \$50,000 for every family


A talented and qualified workforce

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Health Pathway Occupations				
SOC	Occupation	Annual Openings 2004 -2014*	Hourly Rate*	Credential Requirements
29.2021	Dental Hygiene	5 - 10	\$23.48	A.A.S.
29.2041	EMT	1 - 5	\$10.87	Cert./ A.A.S.
29.2061	Lisc. Pract. Nurse (LPN)	30 - 35	\$17.13	Cert.
29.2011	Medical Lab Tec.	5 -10	\$21.10	A.A.S.
29.2071	Medical Records	5 - 10	\$11.66	Cert.
31.1012	Nursing Assisting	170 - 175	\$9.14	Cert.
29.1071	Phys. Asst.	120 - 125	\$36.02	B.S.
29.1111	Reg. Nurse (RN)	155 - 160	\$24.34	A.A.S.
29.2034	Radiation Tech.	10 - 15	\$18.97	A.A.S.
29.1126	Respiratory Therapist	10 - 15	\$17.43	A.A.S.
29.2055**	Surgical Tech.**	90 - 95**	\$15.60**	Cert.**
31.9011	Message Therapy	130 - 135	\$23.68	Cert./A.A.S.
29.2052**	Pharmacy Tech.**	10 - 15**	\$11.67**	Cert.**
29.1051	Pharmacist	15 - 20	\$31.42	Pharm. D.
31.2011**	Occupational Ther. Asst**	55 - 60**	\$23.80**	A.A.S.**
31.2021	Physical Ther. Asst.	5 - 10	\$22.30	A.A.S.
31.9092	Medical Asst.	20 - 25	\$11.21	Cert/A.A.S.

*Based on 2007 Ohio LMI Data for EDR Region 3
**Based on 2007 Ohio LMI Data Statewide

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Business Services Pathway Occupations				
SOC	Occupation	Annual Openings, 2004-2014*	Hourly Wage*	Credential Requirements
43.1011	Business Managers	30 - 35	\$20.46	MA./BA./A.A.S.
41.3099, 4041, 4612	Sales Representatives (all)	50-55	\$26.03	B.A./A.A.S.
11.3011	Financial Managers	5 - 10	\$42.42	B.A./A.A.S.
13.1079	Human Resources, Training, Labor Relations Specialists,	5 - 10	\$24.50	B.A./A.A.S.
11.2022	Sales Managers	5-10	\$37.81	B.A./A.A.S.
43.3031	Bookkeeping, Auditing, Accounting Clerks	50 - 55	\$14.77	B.A./A.A.S.
13.2011	Accountants and Auditors	40 - 45	\$26.74	B.A./A.A.S.
15.1031	Computer Software Engineer**	100+**	\$37**	B.A.
11.3021	Computer & Information Systems Managers	0 - 5	\$35	B.A./A.A.S.
43.6014	Exe. Secretaries/Admin. Asst.	30 - 35	\$18.09	A.A.S.
15.1041	Computer Support Specialists	5 - 10	\$17.02	A.A.S./Cert.
15.1051	Computer Systems Analysts	0 - 5	\$29.61	A.A.S./Cert.
15.1071	Network and Computer Systems Administrators	5 - 10	\$26.26	A.A.S./Cert.
42.9061	Business Clerks	60 - 65	\$10.42	Cert.
41.9022	Real Estate Agents	5 - 10	\$16.30	Cert.


*Based on 2007 Ohio LMI Data for EDR Region 3

Distribution and Logistics Pathway Occupations				
SOC	Occupation	Annual Openings, 2004-2014*	Hourly Wage*	Credential Requirements
11.1021	General & Operations Mgrs.	55 - 60	\$38.76	B.A.
17.2112	Industrial Engineering	20 - 25	\$26.95	B.S.
53.1031	First-Line Supervisors/Mgrs. of Transportation & Material-Moving Machine & Vehicle Operators	20 - 15	\$20.87	B.A (Tech/w. const. mgmt.)/A.A.S./Cert.
49.3042	Heavy Equip. Mechanic	0 - 5	\$13.57	A.A.S.
17.3026	Industrial Engineering Tech.	0 - 5	\$18.37	A.A.S.
11.1021	General & Operations Mgrs.	55 - 60	\$38.76	A.A.S.
17.1021, 1022, 3031	Cartography	5 - 10	\$22.26	A.A.S./Cert.
49.3031	Bus & Truck Mechanic	25 - 30	\$16.57	A.A.S./Cert.
49.3023	Automotive Service Tech./Mech.	35 - 40	\$16.18	A.A.S./Cert.
53.7051	Ind. Truck & Tractor Operator	25 - 30	\$14.51	Cert.
49.9041	Industrial Machinery Mechanics	10 - 15	\$21.90	Cert.
53.3032	Truck Driving, Heavy	90 - 95	\$18.02	Cert/CDL
43.5061	Production, Planning, & Expediting Clerks	10 - 15	\$16.17	Cert.

Based on 2007 Ohio LMI Data for EDR Region 3
*Based on 2007 Ohio LMI Data Statewide

Manufacturing Pathway Occupations				
SOC	Occupation	Annual Openings, 2004-2014*	Hourly Wage*	Credential Requirements
17.2141	Mechanical Engineer/Tech.	25 - 20	\$29.65	B.S./A.A.S.
17.3023	Electrical & Electronic Engineering/Tech**	100+**	\$22.33**	B.S./A.A.S.
17.3026	Industrial Engineering Technology	5 - 10	\$26.95	B.S./A.A.S.
11.1021	Operations Manager	55 - 60	\$38.70	B.S./A.A.S.
17.0251	Civil Engineering	5 - 10	\$26.20	B.S./A.A.S.
51.4011	Computer Controlled Machinist	5 - 10	\$16.02	A.A.S./Cert
49.9041	Industrial Machinery Mechanics	10 - 15	\$21.90	A.A.S.
17.2112	Industrial Engineering Technician	20 - 25	\$26.95	A.A.S.
17.3013	Mechanical Drafters	0 - 5	\$17.67	A.A.S./Cert
51.4041	Machinist	20 - 25	\$16.27	Cert.
51.4121	Welders, Cutters, Solderers, & Brazers	30 - 35	\$17.06	Cert.
47.4099	Construction & Related Workers	0 - 5		Cert.
47.2152	Plumbers, Pipe-fitters, & Steamfitters	10 - 15	\$21.98	Cert.
49.9042	Maintenance & Repair Workers	50 - 60	\$16.48	Cert.

Based on 2007 Ohio LMI Data for EDR Region 3
**Based on 2007 Ohio LMI Data Statewide


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250 work days per year

- \$20,000 = \$10.00 per hour
- \$30,000 = \$15.00 per hour
- \$40,000 = \$20.00 per hour
- \$50,000 = \$25.00 per hour
- \$60,000 = \$30.00 per hour

Your Education Pays Off!

Table 1

Earnings Payoff Relative to a non-High School Diploma Holder

Education Level	Lifetime Earnings	Earnings Payoff
Less than a High School Diploma	\$993,466	
High School Graduate	\$1,298,316	\$304,850
Some College/No Degree	\$1,462,379	\$468,913
2-Year Degree	\$1,527,582	\$534,116
4-Year Degree	\$2,173,417	\$1,179,951
Master's Level Degree	\$2,312,426	\$1,318,960
Doctorate or Professional Degree	\$2,907,904	\$1,914,438

Source: Employment Policy Foundation's analysis of March 2003 Current Population Survey data.

**This table illustrates the earnings payoff compared to a worker without a high school diploma at each higher education level. It reinforces the importance of a higher education in future success. Provided by www.educationpays.org*

Challenges

- Students
- Teachers
- Parents
- Community

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Teens Use of Cell Phones in Class

June 18, 2009

- Store information to look at during test – 26%
- Texts friends answers – 25%
- Search Webs for answers – 20%
- Take photo of test to send friends – 17%

(Students that copy more than 30% of their homework, fail at 4x the rate of other students)

Stop!

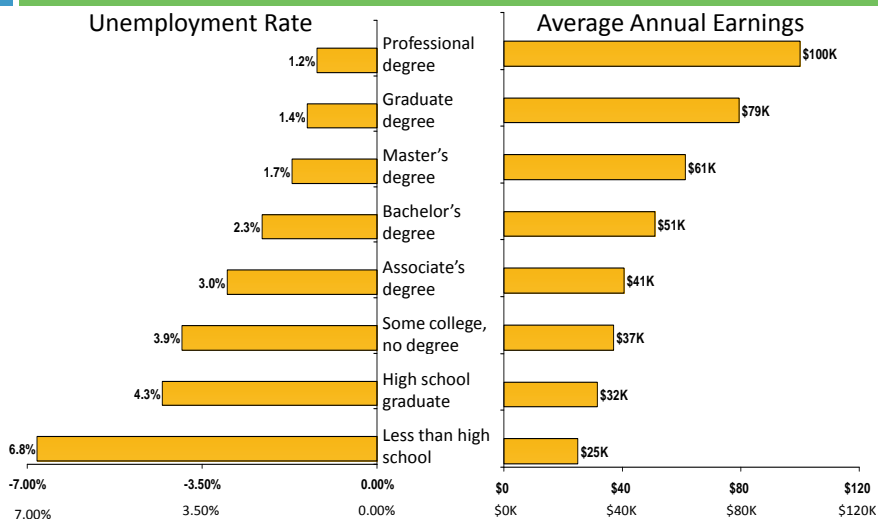
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Investments in your education

- \$100,000 (K-12)
- Dual Credit / Tech Prep / Sr. to Sophomore
\$10,000 - \$50,000
- AP = College Credit

The Key to Opportunity is Education



Savings Rate

1. India -- 25%
2. Japan -- 28%
3. Korea -- 30%
4. China -- 50%
5. United States -- (-4%)

Teacher – Student Comparisons

T – I am aware of my students' interests outside of school.	85%
S – My teachers know my interests outside of school.	28%

Teacher – Student Comparisons

T – Students can apply what I am teaching to their everyday lives.	93%
S – I can apply what I learn to my everyday life.	57%

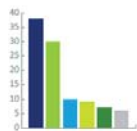
Teacher – Student Comparisons

T – I make learning exciting for my students.	88%
S – My teachers make learning fun.	42%

Dangerous disconnect

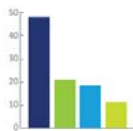
Only 9% of high school teachers think preparing students for college is their primary mission, whereas low-income parents and students say that preparing for college is the most important purpose of high school.

Teachers: What is your primary mission as a teacher?



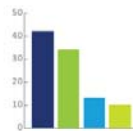
- Help students master the subject you teach: 38%
- Teach students basic life skills: 30%
- Ensure students graduate high school: 10%
- Prepare students for success in college: 9%
- Ensure students pass required exams: 7%
- Prepare students for the workforce: 6%

Students: Which of the following is the most important purpose of high school?



- Getting prepared for college: 48%
- Learning basic life skills: 21%
- Graduating high school: 18%
- Getting prepared for the workforce: 11%

Parents: Which of the following is the most important purpose of high school?



- Preparing students for college: 42%
- Teaching basic life skills: 34%
- Preparing students for the workforce: 13%
- Ensuring students graduate high school: 10%

Redefining High School as a Launch Pad • Deloitte 2009 Educational Survey Overview

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Are student prepared for college?

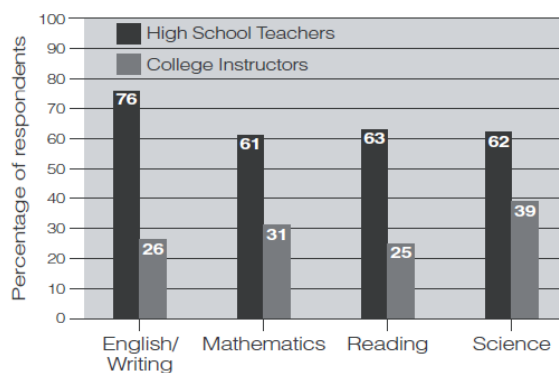


Figure 1: Percentages of Educators Reporting that More than Half of Their Students Are Ready for College-Level Reading

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Source: ACT National Curriculum Survey 2009

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What will the August reports say?

ACT PROFILE REPORT - State: SECTION I, EXECUTIVE SUMMARY

PAGE 6

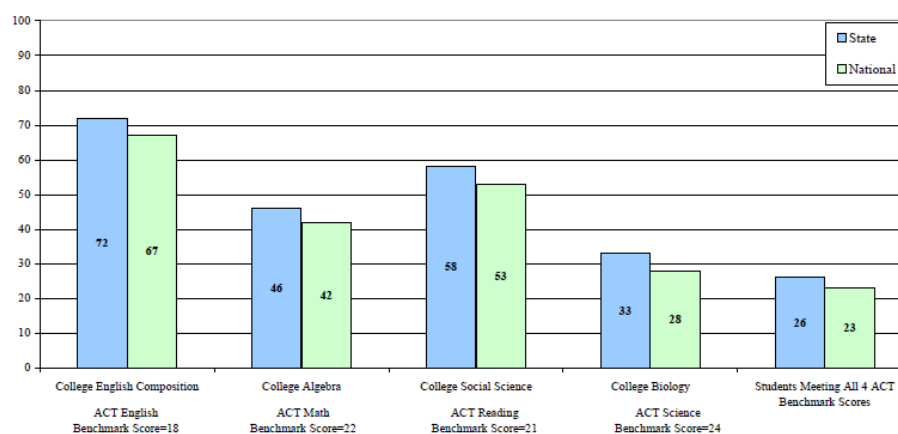
Graduating Class 2009

Code 369999

Ohio

Total Students in Report: 88,754

Figure 1.1. Percent of Your Students Ready for College-Level Coursework



A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college course.

What are students needing remediation at the college level telling us?

- More than half described themselves as good students who worked hard and nearly always completed high school assignments.
- 59 percent of remedial education students report that their high school classes were easy.
- Nearly four-out-of-five remedial students had a high school grade point average of 3.0 or higher.

Source: Strong American Schools

Can we really afford not to do this?

- Students and families paid an estimated \$708-886M.
- 43 percent of all students at public two-year institutions have enrolled in a remedial course.
- 29 percent of all students at public four-year institutions have enrolled in a remedial class.

Source: Strong American Schools

AP courses are a predictor of success

High school students take fewer Advanced Placement (AP) courses than students in other states.

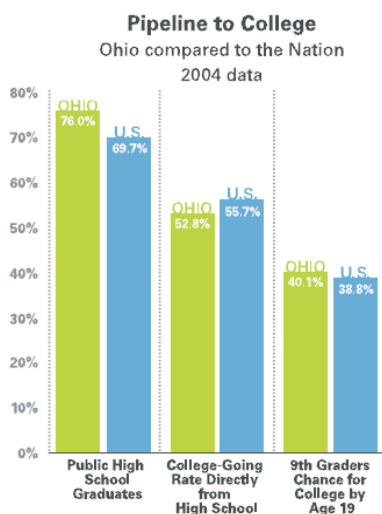
*The 4th Annual AP Report to the Nation,
2008, The College Board*

The initiative aligns with the direction of the state...

“...All students will take the ACT college entrance examination, not only to measure their high school achievement, but to help raise students’ aspirations for higher education. Students will also take statewide end-of-course exams...”

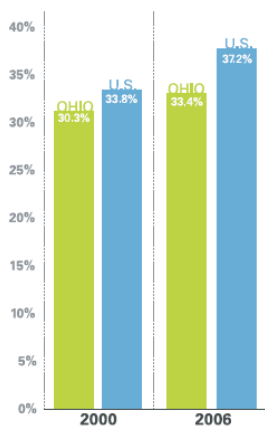
- Governor Ted Strickland

Pipeline to College



Adults with Assoc. Degree or Higher

Percent of Adults Age 25-64 with an Associate Degree or Higher
Ohio compared to the Nation



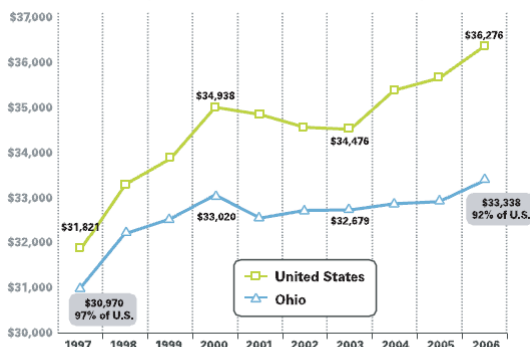
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Source: U.S. Census, Surveys of Educational Attainment, 2000 and 2006

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Income in Ohio

Per Capita Personal Income
Ohio compared to the Nation
(1997 to 2006 in constant 2006 dollars)



Source: US Bureau of Economic Analysis, 1997-2006

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Purposes of the Ohio Core

- Establish rigorous high school graduation expectations for all students
- Prepare Ohioans to meet demands of the knowledge-based economy
- Prepare high school graduates to be successful in college or work
- Strengthen link between high school graduation and college entry
- Reduce remediation at the college-level

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Ohio Core Graduation Requirements

- Effective for the class of 2014
- Affects students enrolled after July 1, 2010 who are:
 - Accelerated, or
 - Graduating early



www.legislature.state.oh.us/analysis.cfm?ID=126_SB_311&hf=analyses126/s0311-rh-126.htm

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Beginning in 2014 – 2015

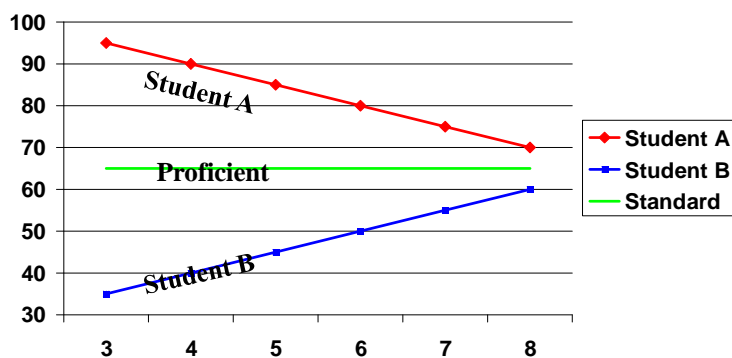
- Ohio Core required for admission to most state-supported, four-year universities
- Reduced state subsidy for remedial coursework at most state-supported, four-year universities



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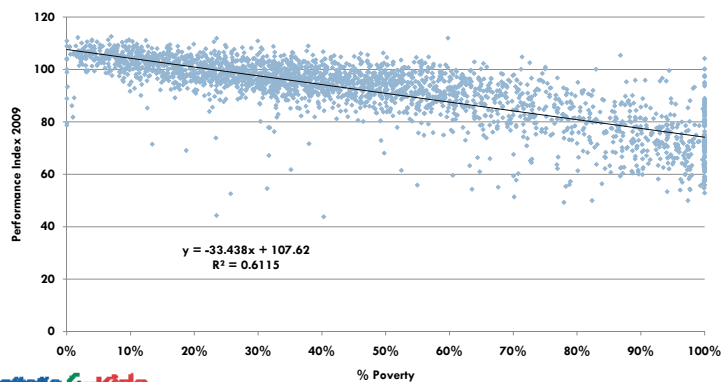
Why use Value-Added in Lieu of Pure Achievement?



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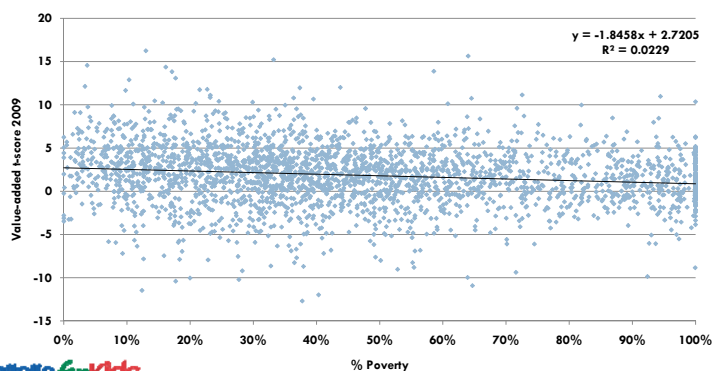
School Achievement and Poverty Level



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School Value-Added Gains and Poverty Level



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Now what!

- Students • hard work = luck
 - Surround yourself with friends that support your future
 - Advanced curriculums = college graduates
- Teachers • refocus on college and career readiness skills
- Parents • give your child the gift of “No”!
 - Ask questions
- Community • continue to explore supports


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“If you can solve the education problem, you don’t have to do anything else. If you don’t solve it, nothing else is going to matter all that much.”

– Alan Greenspan
Former Federal Reserve
Board Chairman


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