McMinnville School District

- The only Oregon School district with three schools designated as Model Schools
- A state leader in dual high school/college credit, with 6,878 college credits earned in 2011/12
- Oregon STEM initiative calls MSD 'A bright spot in STEM education in Oregon'
- A comprehensive birth through grade 14 approach to education

District Demographics:

- Enrollment: 6,555
- 62% Economically Disadvantaged
- 31% Latino
- 65% White
- 14% Limited English Proficient
- 13% Students with Disabilities
- 77% First-Generation College Goers

McMinnville School District serves the cities of McMinnville and Lafayette and rural, unincorporated areas of Yamhill County. The District has six elementary schools, two middle schools, and one high school.

McMinnville School District

1500 NE Baker Street
McMinnville, Oregon 97128
Phone: 503.565.4000
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MCMINNVILLE SCHOOL DISTRICT

40-40-20 Initiative

Achieving Excellence through High Standards of Teaching and Learning

Tel: 503.565.4000
www.msd.k12.or.us

40-40-20 Strategies

- Professional development and **job-embedded** coaching in three foundational frameworks
- Jumpstart to Kindergarten—**Child development workshops** and resources for parents of children, birth to age five
- Intensive **literacy interventions** in K-3rd grade
- **Balanced Math** in K-5th grade
- 1st-7th grade field– and industry-based **STEM/STEAM teaching and learning**
- 6th-8th grade STEM Centers featuring **Project Lead The Way** curriculum and Instruction
- **STEM** Summer Camp for **Girls** (5th-8th)
- **STEM** Summer Camp for **Migrant** Students (5th-8th)
- **Math interventions** (double-dose) in 6th-8th grade based on Common Formative Assessment data
- **Double-block** (90 minutes daily) **algebra** in 9th grade
- **Supplemental reading,** in addition to college-track English, for 10th-12th graders performing below proficiency
- 9th grade **Smaller Learning Communities**
- 10th-12th grade **Career Pathways**, including the Engineering and Aerospace Sciences Academy
- **College Seminar** Courses (completing the critical steps to college entry)
- Extensive **College Credit Now** and Advanced Placement programs

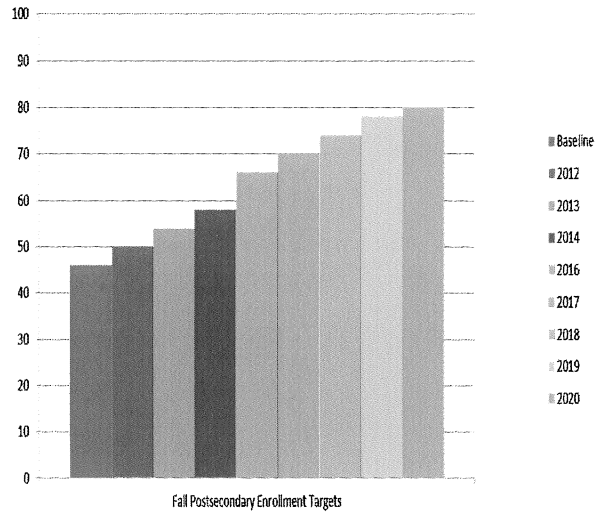
Winning the Future

At McMinnville School District, we believe the quality of education a child receives should not be defined by demographics, such as ethnicity, home language, disability, or family income. To win the future, we cannot afford for any child's dream to be deferred. We are dedicated to ensuring that all children receive a personalized education characterized by rigor, relevance, and relationships. McMinnville School District is implementing a comprehensive and coherent education reform vision that is already achieving measureable success:

- Increasing student achievement
- Accelerating student growth
- Narrowing and eliminating achievement gaps among student subgroups
- Deepening student learning and preparing all students for college and career
- Ensuring educational equity for all

MSD 2020 Goal

- 40% of graduates enroll in 4-year college
- 40% of graduates enroll in 2-year college or career/technical school
- 20% of graduates are work force ready with skills that earn a living family wage



"To win the future, we have to out-innovate, out-educated, and out-build the rest of the world, tapping the creativity and imagination of our people . . . we must out-educate our global competitors by giving every child a world-class education and opening the doors of college and opportunity to all students." — President Barack Obama

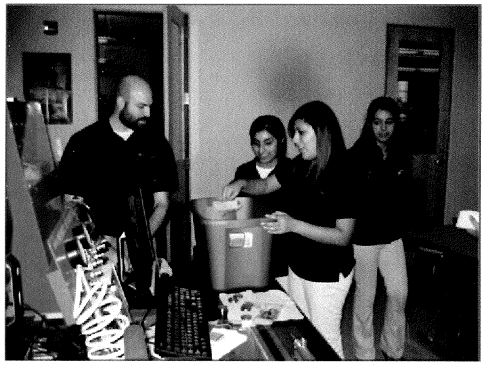
EASA Sample Academic Plan

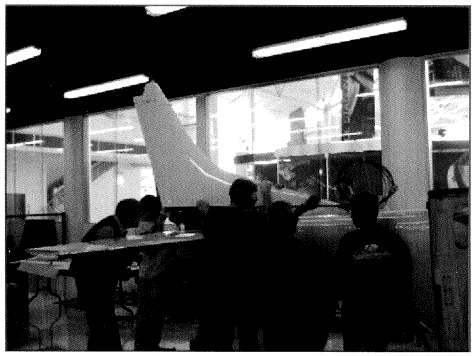
9th Grade	10th Grade	11th Grade	12th Grade
English	English	Technical Writing	College Writing
Social Studies	Social Studies	AP U.S. History	AP Psychology
Biology	Physics for Engineers 1	Physics for Engineers 2	AP Physics
Geometry	Advanced Algebra	Trigonometry	AP Calculus
Survey of Engineering	Basic Engineering	Intro to Engineering	Engineering Design
Engineering Projects 1	Engineering Projects 2	Engineering Projects 3	Advanced Projects
PE/Health	PE/Health	EASA Electives	Electives
Second Language	Second Language	Second Language	Second Language

SATURDAY ACADEMIES AT EASA

Saturday Academies at EASA provide curriculum enrichment in engineering related projects and activities, including:

⇒ Circuits
⇒ Engines
⇒ Model Aircraft and Remote Control Aircraft
⇒ Robotics



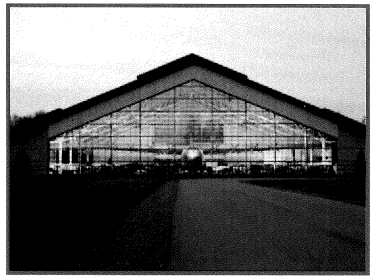


PATHWAY PARTNERS:
EVERGREEN AVIATION & SPACE MUSEUM
PORTLAND COMMUNITY COLLEGE
CHEMEKETA COMMUNITY COLLEGE

McMinnville High School
615 NE 15th
McMinnville, Oregon 97128
Phone: 503.565.4200
Fax: 503.565.4244
www.msd.k12.or.us/MHS

MCMINNVILLE HIGH SCHOOL

EASA
ENGINEERING & AEROSPACE SCIENCES ACADEMY



An MHS Career Pathway located at Evergreen Aviation and Space Museum

Pathway Contact:
Owen Griffiths
ogriffiths@msd.k12.or.us
503.565.5770

OVERVIEW

McMinnville School District has partnered with education, business, and industrial interests from around the Northwest to develop EASA's career and college-driven program. EASA is a hands-on, intensive program that puts students steps ahead in readiness for college and careers in engineering, technology, and science. EASA's curriculum offers an integrated set of core academics, with engineering and technical skill applications, to provide students with broadly transferrable skills and knowledge in the areas of creative and practical problem solving.

As part of the EASA program, industry mentors work directly with students on projects like the Cessna Aircraft rebuild and on the FIRST Robotics Competition team. Additionally, EASA has partnered with Portland Community College and Chemeketa Community College in order to provide students with an option of concurrent high school/college enrollment with credit that transfers to four-year college programs.

EASA fosters capable, critical thinkers and problem solvers that can work within any discipline because they have broad knowledge and skill-sets.

EASA Coursework

Course	Grade	MHS Credit	College Credit
Biology for Engineers	9th-12th	1.0	
Advanced Biology for Engineers	11th-12th	1.0	15 Credits
Physics for Engineers 1	9th-11th	1.0	
Physics for Engineers 2	10th-12th	1.0	
Calculus 1 Honors/AP	11th-12th	1.0	10 Credits
Calculus for Engineers	11th-12th	1.0	5 Credits
Geometry for Engineers	9th	1.0	
Algebra 2 Honors	9th-12th	1.0	5 Credits
Advanced Trigonometry	9th-12th	1.0	5 Credits
Architecture	11th-12th	1.0	3 Credits
Astronomy for Engineers	11th-12th	1.0	
Aviation 1	10th-12th	0.5	
Engineering Projects 1	9th-10th	1.0	
Engineering Projects 2	10th-11th	1.0	
Engineering Projects 3	11h-12th	1.0	
Engineering Projects 4	11th-12th	1.0	
Survey of Engineering	9th-12th	1.0	
Basics of Engineering	11th-12th	1.0	3 Credits
Intro to Engineering	11th-12th	1.0	6 Credits
Engineering Graphics CAD 1	11th-12th	1.0	
Engineering Graphics CAD 2	11th-12th	1.0	

PATHWAY DIPLOMA REQUIREMENTS

2.5 Credits from the following:

1. Intro. to Engineering
2. Basics of Engineering
3. Survey of Engineering
4. Engineering Graphics
5. Engineering Projects 1
6. Engineering Projects 2
7. Engineering Projects 3

CAREERS IN STEM

(Science, Technology Engineering, & Math)

- ⇒ Aerospace Engineer
- ⇒ Drafter
- ⇒ Civil Engineer
- ⇒ Engineering Technician
- ⇒ Tool and Die Maker
- ⇒ Aircraft Mechanic
- ⇒ Civil Engineer
- ⇒ Industrial Engineer
- ⇒ Mechanical Engineer
- ⇒ Architect
- ⇒ Biomedical Scientist
- ⇒ Commercial Pilot
- ⇒ Laser Technician
- ⇒ Statistician

McMinnville School District: Strategies to Achieve and Sustain the 40-40-20 Goal

- ✓ Professional development and job-embedded instructional coaching in three foundational frameworks (Rigorous Curriculum Design, Power Strategies for Effective Teaching, Common Formative Assessments/Data Teams)
- ✓ Jumpstart to Kindergarten – Child development workshops featuring instruction, modeling, coaching, and resources for parents of children (birth to age 5) to increase kindergarten readiness
- ✓ Intensive literacy interventions in K-3rd grade
- ✓ Balanced math in K-5thgrade
- ✓ 1st-7th grade field-based STEM teaching and learning
- ✓ 6th-8th STEM Centers (Project Lead The Way curriculum and instruction)
- ✓ 9th-12th Engineering and Aerospace Sciences Academy (STEM intensive)
- ✓ Double-block algebra (90 minutes every day) in 9th grade
- ✓ Supplemental reading (90 minutes every other day) for 10th-12th graders below proficiency
- ✓ 9th grade Smaller Learning Communities (multidisciplinary teams with common students, common planning time, physical proximity, and flexible blocks of time)
- ✓ Freshman Seminar (college and career exploration, planning, and preparation)
- ✓ Senior Seminar (completing the critical steps to college entry)
- ✓ 10th-12th grade Career Pathways featuring industry-based learning, extended internships, and student-run enterprises
- ✓ Dual high school/college credit coursework (6,878 college credits earned last year)
- ✓ Strong business and community partnerships (Chemeketa, Kids On the Block, Evergreen Aviation, KOIN TV, Willamette Valley Medical Center, Chamber, etc.)
- ✓ 1st-10th Afterschool Program (extended learning)
- ✓ Technology-rich teaching and learning, including online learning

McMinnville School District:
Problem-Based STEM/STEAM (Science, Technology, Engineering, Art, and Math) Teaching and Learning

- ✓ Project Lead The Way trained teachers (5 FTE)
- ✓ Infusion of 100K to support performing arts and to develop elementary instrumental opportunity and a secondary drum corps
- ✓ Field- and industry-based STEM teaching and learning in 1st-7th grade, including:
  - 1st – Science Behind Structure @ Evergreen Space Museum
  - 2nd – Insecta Inspecta @ Millers Woods Nature Preserve
  - 3rd – Science of Water @ McMinnville Water and Light Treatment Facility
  - 3rd – Robotics Challenge @ Evergreen Space Museum
  - 4th – Ecology @ Miller Woods Nature Preserve
  - 5th – Physics of Skateboards @ Evergreen Space Museum
  - 6th – Tsunami Structure Challenge @ OSU Wave Laboratory
  - 7th – Landforms and Erosion @ Metzger Park
- ✓ 1st-5th Afterschool Program – FIRST LEGO League Teams
- ✓ STEM Camp for Girls (75 Middle School Girls) @ Engineering and Aerospace Science Academy located at Evergreen Space Museum
- ✓ Migrant STEM Summer Camp (5th-8th grade migrant students)
- ✓ Middle School STEM Centers offering Project Lead The Way Curriculum and Instruction, including:
  - Engineering
  - Applied Robotics
  - Transportation and Aerospace
  - Design and Modeling
  - Automation
- ✓ STEM Professional Learning Communities Partnership Project (an MSP grant-funded project) – Problem-based STEM-intensive teaching and learning in 9th grade algebra and biology, in partnership with Pacific University and University of Oregon
- ✓ Engineering and Aerospace Sciences Academy, a 9th-12 grade STEM-intensive program located at Evergreen Space Museum, offering extensive dual high school/college credit and Project Lead The Way Curriculum and Instruction
- ✓ FIRST Robotics Challenge Team

McMinnville School District: Early Learning

- ✓ JumpStart to Kindergarten – Birth to Five Years; Age targeted (birth to 1, 1 to 2, 2 to 3, etc.) series of three workshops (Spanish and English) per year featuring:
  - Healthy family meal and opportunity to network
  - Child development instruction
  - Modeling of play activities designed to promote healthy development
  - Small group coaching of play activities designed to promote healthy development
  - Families leave each workshop with a bag of new, developmentally appropriate toys and books and other resources
- ✓ 51% of families participating in JumpStart are limited English proficient and almost all participants are economically disadvantaged
- ✓ Migrant Preschool
- ✓ Universal Preschool (proposed in RTT application) – ½ day program for 4 year olds
- ✓ Extended Day Kinder (proposed in RTT application) – full day program for at-risk 5 year olds

McMinnville School District: A Few Successes . . .

- ✓ 3 Model Schools, based on the Oregon growth model
- ✓ 1 Top Ten Middle School
- ✓ Above state average in math at all tested grades in all schools
- ✓ Among state leaders in dual high school/college credits
- ✓ 95% of students who earn nine-plus college credits (which is 68% of all students earning dual credit) enroll in college the fall following graduation
- ✓ 92% College persistence rate among students who earn nine-plus college credits
- ✓ 6,878 dual high school/college credits earned in 2011/12

McMinnville School District (MSD)

Achieving Excellence in Education

Buel, Grandhaven, and Memorial are Oregon "Model" Schools

MSD: Model Schools

Grandhaven, Memorial, and Sue Buel elementary schools earned state designation as Model Schools. The Oregon Department of Education describes model schools as "high poverty schools which are ranked in the top 5%." Statewide, twenty-seven schools from twenty districts were selected as Model Schools.

School Demographics	Economically Disadvantaged	Limited English Proficient
Buel	85%	44%
Grandhaven E.S.	67%	25.7%
Memorial E.S.	44%	10.5%

Model School Visitation: Strategies and Structures to Increase Student Achievement and Accelerate Student Growth

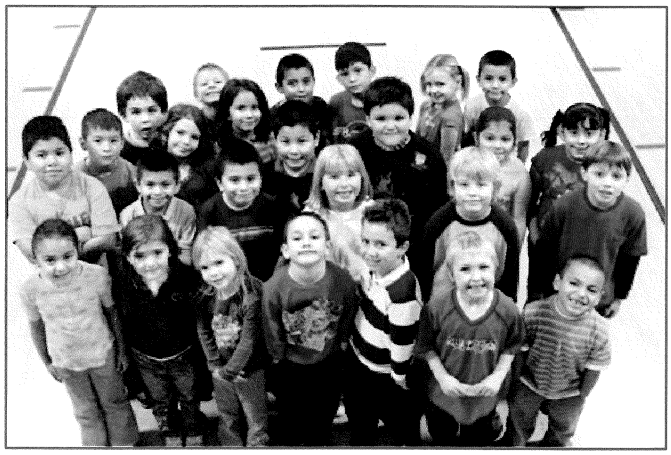
- ✓ **January 16, 2013**
- ✓ **9:00-2:00**
- ✓ **$75 per person (includes lunch)**

Model School Visitation – Topics and Activities

- ❑ Power Strategies for Effective Teaching
- ❑ Laser-like focus on standards and successful transition to Common Core
- ❑ Common Formative Assessments/Data Teams to accelerate student growth
- ❑ Intentional interventions to narrow achievement gaps
- ❑ Creating a collaborative culture
- ❑ Q&A and networking
- ❑ Observations of classroom teaching and learning

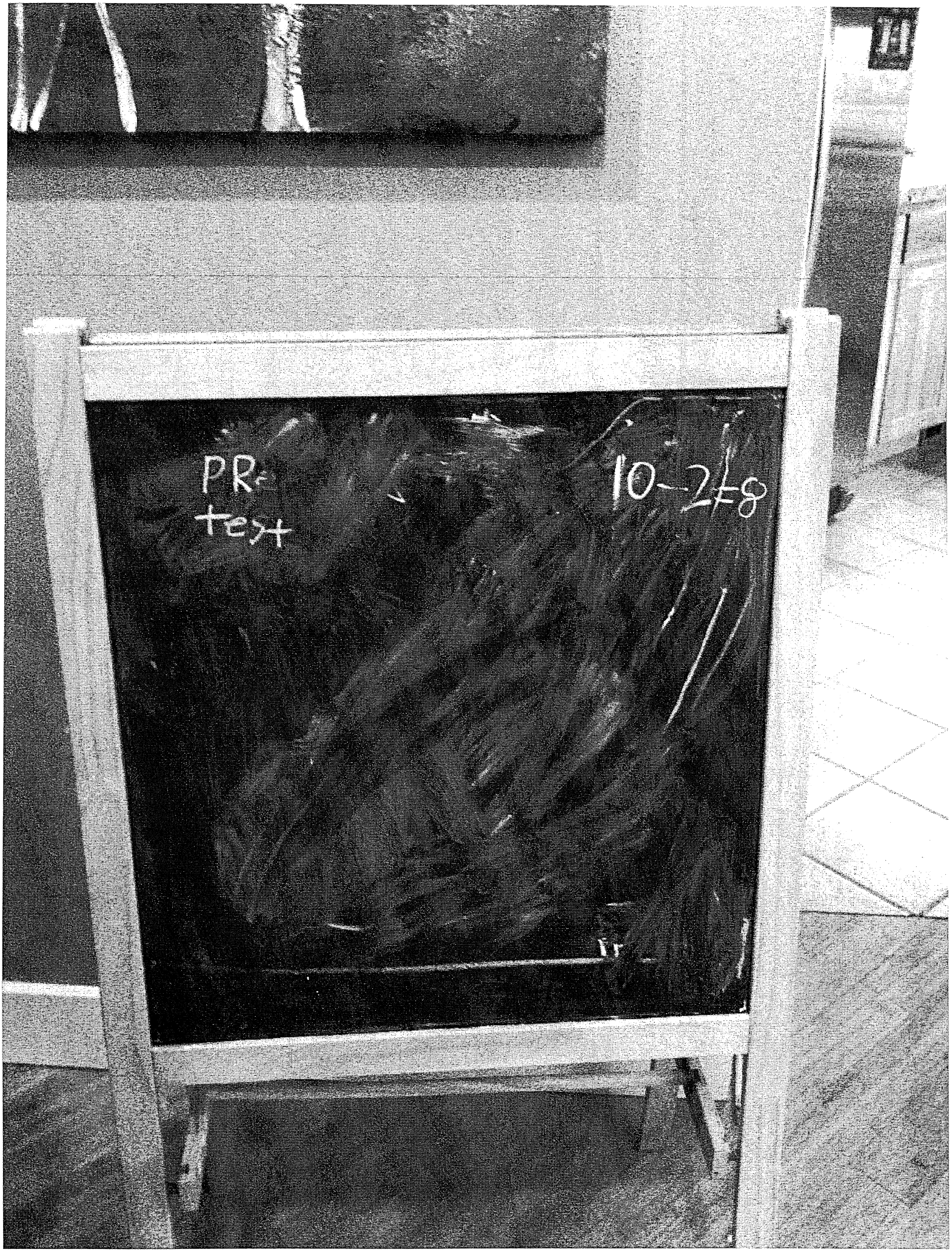
Register yourself or your team for the Jan. 16, 2013 Model School Visitation at:

https://www.surveymonkey.com/s/msdmodelschool



Buel	Math	Reading
All students	85.5%	79.9%
Hispanic	83.3%	72.4%
LEP	78.6%	60.0%
SWD	67.6%	47.4%
Ec. Disadv.	83.2%	78.0%
Grandhaven	**Math**	**Reading**
All students	82.6%	82.2%
Hispanic	72.4%	75.5%
LEP	62.5%	66.7%
SWD	54.7%	50.9%
Ec. Disadv.	76.2%	76.2%
Memorial	**Math**	**Reading**
All students	90.5%	89.4%
Hispanic	90.5%	79.4%
LEP	77.8%	61.1%
SWD	73.8%	66.7%
Ec. Disadv.	86.3%	81.5%

LEP: Limited English Proficient
SWD: Students with Disabilities
Ec. Disadv.: Economically Disadvantaged
Proficiency rates shown are composite of 3rd-5th state tests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