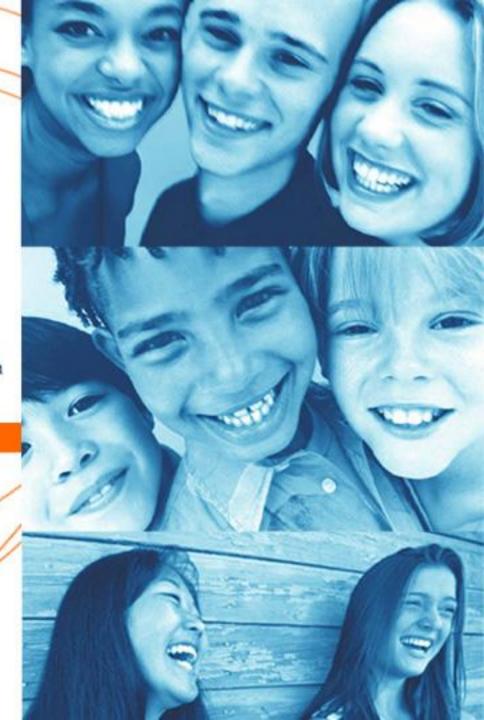
HEALTHY KIDS IN LEARN BETTER

A Coordinated School Health Approach

Good health & learning go hand in hand.

Isabelle Barbour, Team Lead
HKLB Program, Oregon Public Health
Division

Ken Costa, Principal New Urban High School, North Clackamas School District



Session Objectives

Participants will be able to:

- Describe the connection between health and learning.
- Understand specific strategies that can be used to address school health.
- Reflect on the role that school health could play in school improvement efforts.

What animal most accurately reflects your experience with school health?

Monkey

Owl

Turtle

Framing the Issue

Maslow's Hierarchy of Needs

Self Actualization

Aesthetic and cognitive needs

knowledge, understanding, goodness, justice beauty,order, symmetry

Esteem needs

competence, approval, recognition

Belongingness and love needs

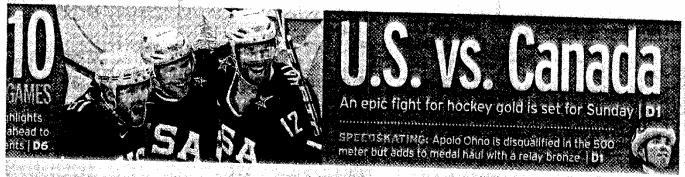
affiliation, acceptance, affection

Safety needs

security, physiological safety

Physiological needs

food, drink



Bazers fall to Officado III Overtine atrace

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Big carrots

Oregon schools | Millions in federal aid to improve performance are tied to radical classroom reforms

By BETSY HAMMOND THE OREGONIAN

Oregon's worst-performing schools will be offered millions of dollars to improve, but they will have to make big changes — including removing the principal and evaluating teachers based on student achievement — to get the money.

The Obama administration is driving most of this change. U.S. Secretary of Education Arne Duncan wants states to target the schools that need intervention the most and spur them to make what he believes can be game-changing reforms.

In Oregon, all but one of the 18 schools that

qualify are high schools, and many are small second-chance alternative schools. The list targets low-income schools with the lowest test scores and, for high schools, any that have fewer than 60 percent of students graduate in four years.

The list includes all three small academies at Portland's Roosevelt High, one of three small academies at Marshall High and four alternative schools in the Beaverton, Oregon City, North Clackamas and Centennial school districts.

Oregon's plan for carrying out this next round of federal school improvement grants, worth \$25 million over the next three school years, marks a departure from the way state-monitored school improvement efforts have worked in the past.

Until now, schools that chronically missed federal performance standards faced sanctions if they received federal Title I funding for high-poverty

Please see **SCHOOLS**, Page A4

Oragon's worst-performing schools

Oregon schools with the lowest reading and math scores and graduation rates below 60 percent.

TIEN IN

Roosevett High's three exademies (Spanish-

English International; Arts, Communications & Technology; ROW.E.R.), Portland

Marshall High's Bix Tech

Academy, Portland McKay Migh, Salem Hallman Elementary, Salem

TIER HA

New Urban Wigh, North Clackamas

Community School Beaverton Oragon City Service Learning Academy

Contennial Learning Center Ontario High

Medras High

Six small alternative high schools in Bend, Eugene, Klamath Falls, Fern Ridge and Satem

 "The Linearity Sederal funds for high-poverty achinors and in the states for plantly for bire around grants. Ther it schools have equally poor performance but don't here in the funding Source: Oregon Department of Education.

Is something missing?

 Despite compelling evidence linking health and academic achievement, there is no U.S. Department of Education initiative to reduce educationally relevant health disparities as part of the national strategy to close the achievement gap.

Charles E. Basch, Teachers College, Columbia University

Relationship Between Health and Education

"No educational tool is more essential than good health."

Council of Chief State School Officers

Relationship Between Health and Education

"Health and success in school are interrelated."

Schools cannot achieve their primary mission of education if students and staff are not healthy and fit physically, mentally, and socially."

National Association of State Boards of Education

Healthy People 2020

- Increase educational achievement of adolescents and young adults.
 - High School Graduation after 4 years
 - Graduation of those served under Individuals with Disabilities Education Act
 - Reading Skills
 - Math Skills
 - Engaged and connected with school
 - Less school missed due to illness/injury

Challenges to measuring the connection between health and learning

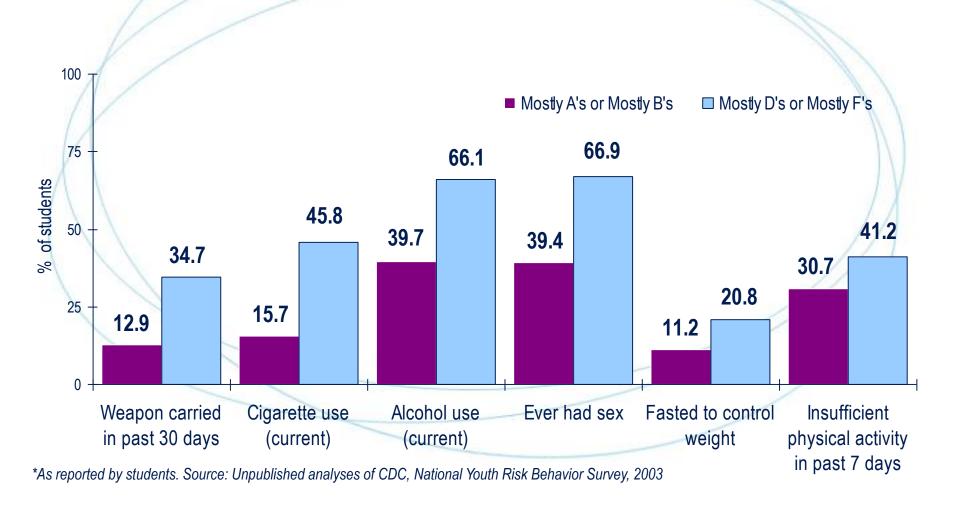
- Many intertwined variables in a real world setting.
- Variety in implementation of health strategies.
- Metrics for measuring learning across a population are imperfect.

There is a research-based link between students' physical, social and emotional health and their ability to learn...

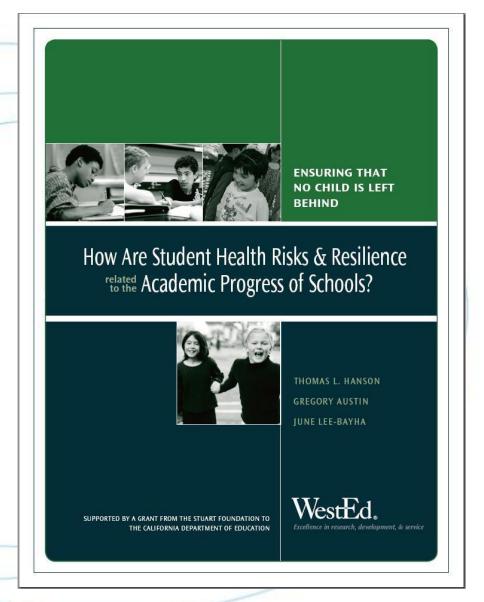
Seven Preventable Health Risks

- 1 Tobacco Use
- Abuse of Alcohol & Other Drugs
- Unhealthy Eating Behaviors
- Physical Inactivity
- Violence & Youth Suicide
- 6 Unintentional Injury
- 7 Sexual Risk Behaviors

Percentage of U.S. High School Students Who Engage in Selected Health Risk Behaviors and Self-reported Grades



What are the effects of health risks and resilience on annual standardized test scores in California?



Download at:

http://www.wested.org/cs/chks/print/docs/chks_health.html

CALIFORNIA healthy kids & URVEY

Main Findings: Cross-sectional

 Low performing schools generally have more students exposed to health risk than other schools, even after accounting for socioeconomic characteristics.

API scores were related to:

- Physical Exercise
- Nutrition
- Substance Use
- Violence and School Safety
- School Developmental Supports External Assets

Main Findings: Longitudinal

Test score gains were larger in schools with:

high levels of

- physical activity
- healthy eating
- school safety
- caring relationships at school, high expectations at school, and participation in meaningful activities in the community

and low levels of

- substance use, particularly substance use at school
- drug availability at school
- theft and vandalism, insecurity, and weapon possession
- sadness and depression

New CDC Report Physical Activity, Physical Education and Academic Performance

- Examined the literature on school-based physical activity, physical education, and academic performance (43 articles/50 studies were included)
- Categorized by context: occurred in physical education, recess, classroom physical activity or extra-curricular activity settings
- Academic performance was grouped in 3 categories
 - Academic achievement (e.g., test scores, grades)
 - Academic behavior (e.g., on-task behaviors, attendance)
 - Cognitive skills and attitudes (e.g., attention, memory)

Results

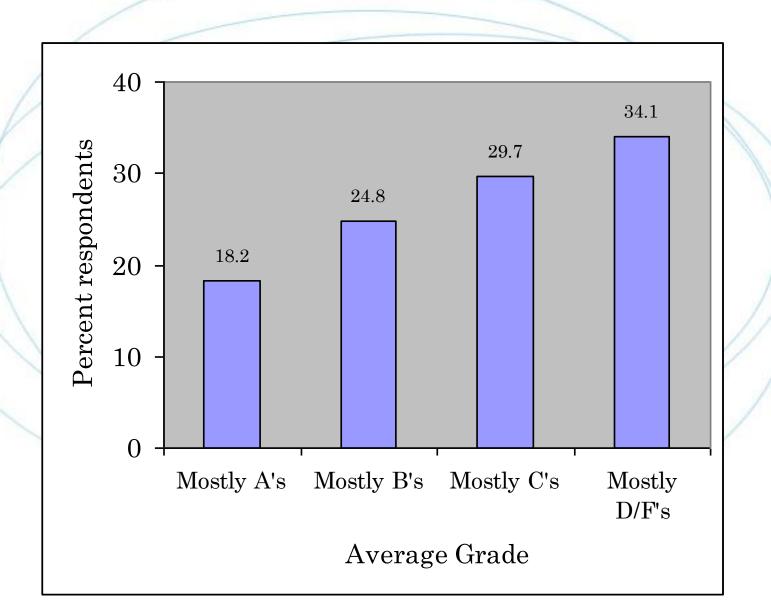
- 11 of 14 studies physical education setting, 1 or more positive associations between physical education and indicators of academic performance were found- 3 studies found no association
- 8 recess studies found positive associations between recess and some academic indicators
- 8 of 9 studies on classroom physical activity breaks and indicators of academic performance, there were one or more positive associations,1 study found no association
- All 19 studies on extra curricular physical activity showed one or more positive associations with indicators of academic performance

Implication of the CDC study

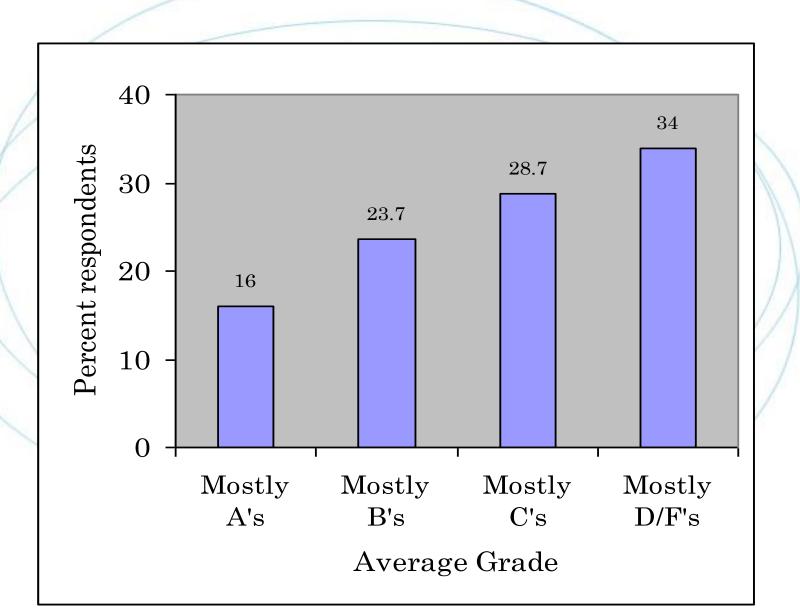
 Physical activity can help and does not hurt academic achievement.

Ok- But what about Oregon?

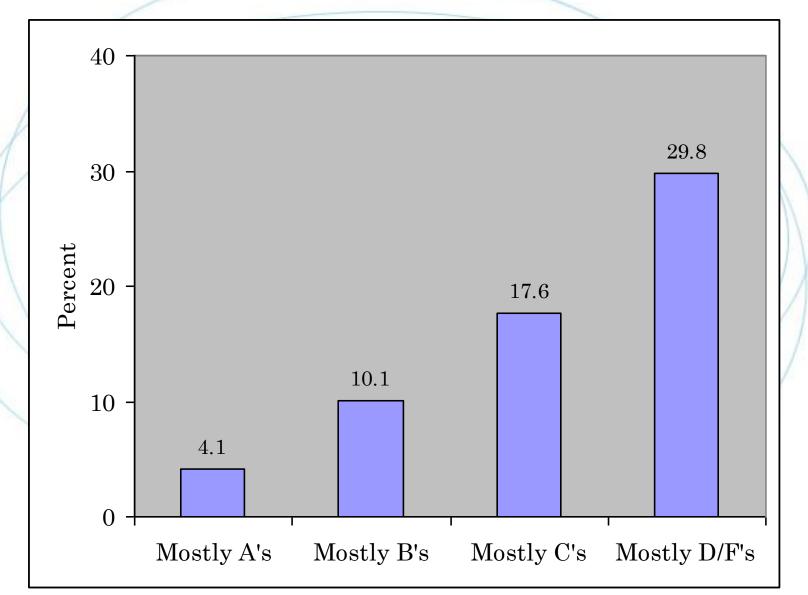
Correlation between grades and overweight and obese status - OHT 8th Grade



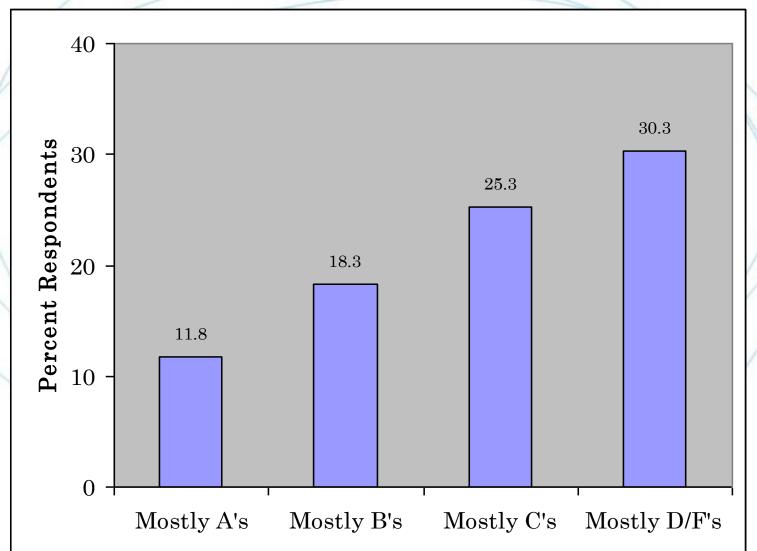
Correlation between grades and overweight and obese status - OHT 11th Grade



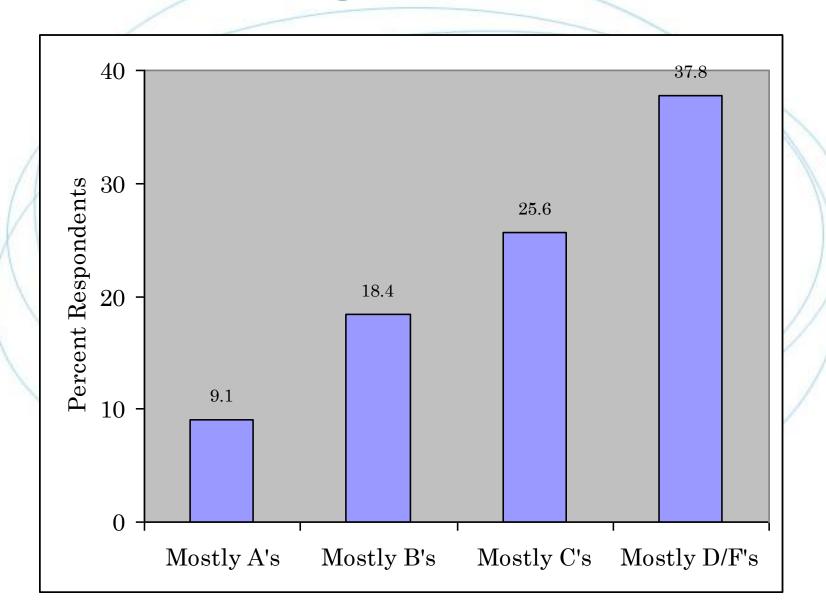
Correlation between grades and tobacco use OHT 8th Grade



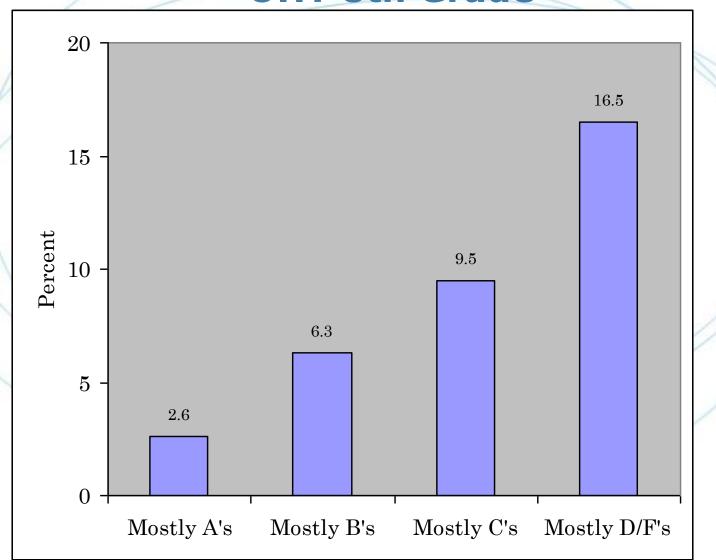
Correlation between grades and ate less because there was not money to buy food OHT 11th Grade



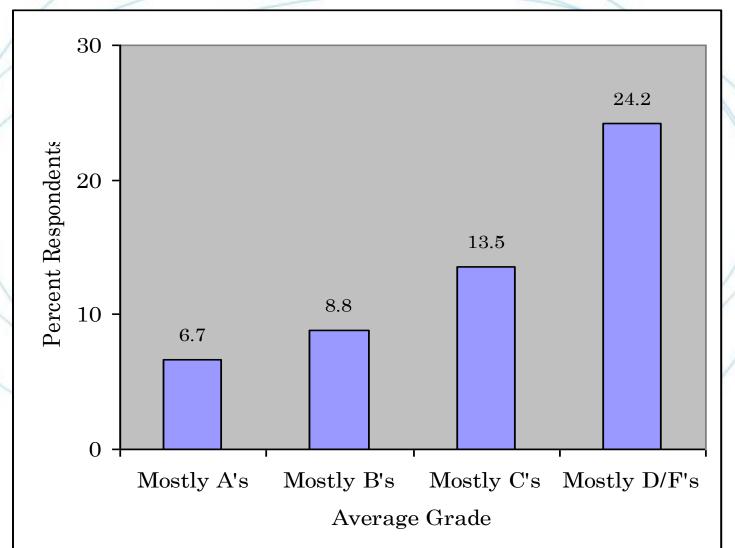
Correlation between grades and ever had sex Oregon 8th Grade



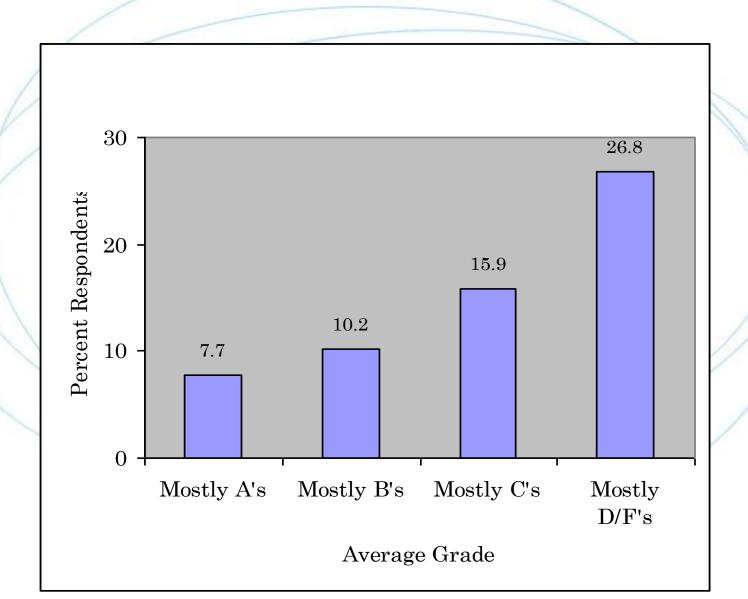
Correlation between grades and school avoidance due to safety concerns OHT 8th Grade



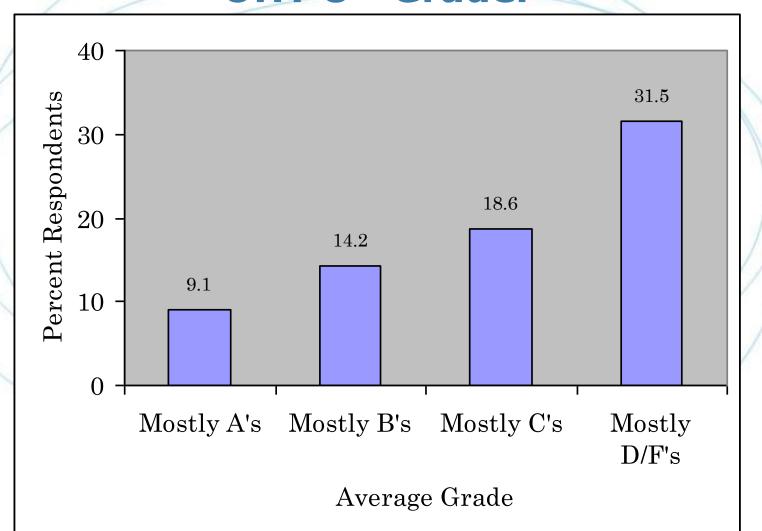
Correlation between grades and selfreported poor physical health for OHT 8th Grade



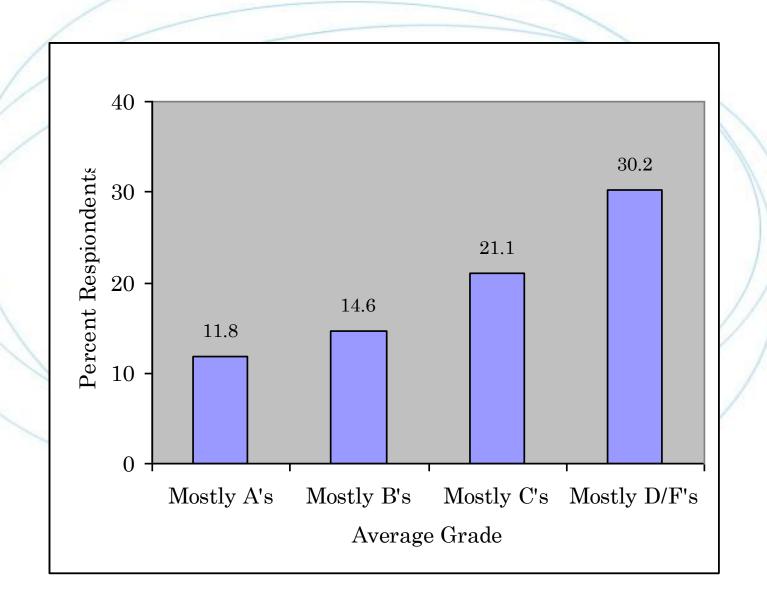
Correlation between grades and self-reported fair or poor physical health – OHT 11th Grade



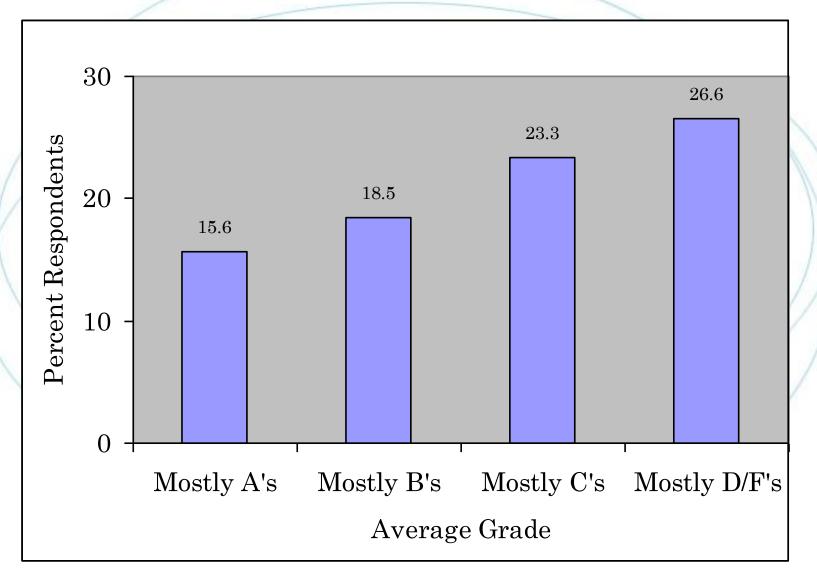
Correlation between grades and selfreported fair or poor emotional health OHT 8th Grader



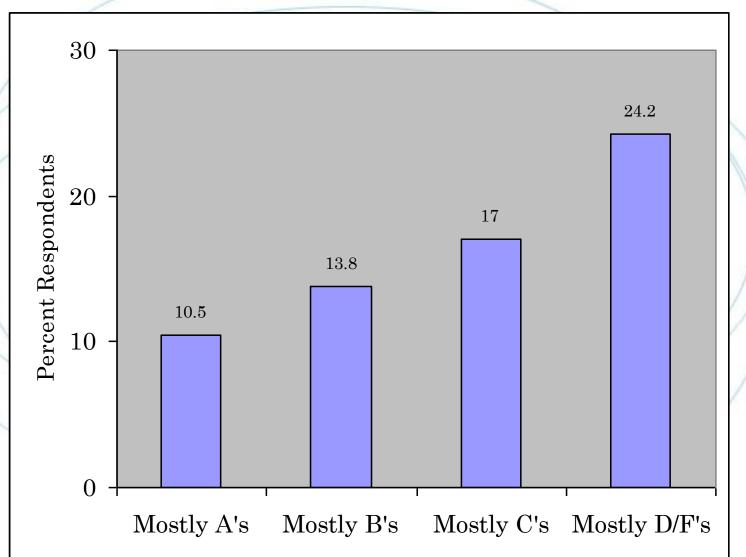
Correlation between grades and fair or poor emotional health for OHT 11th Grade



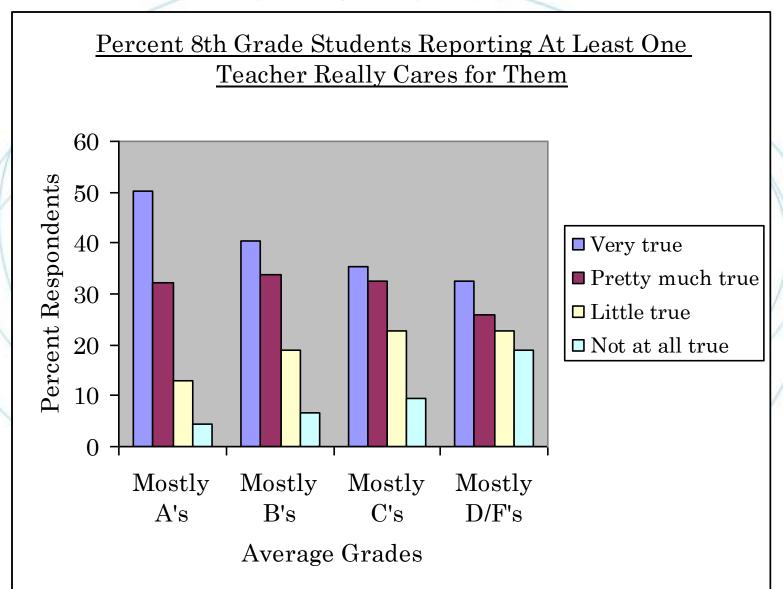
Correlation between grades and unmet physical health care needs – OHT 11th Grade



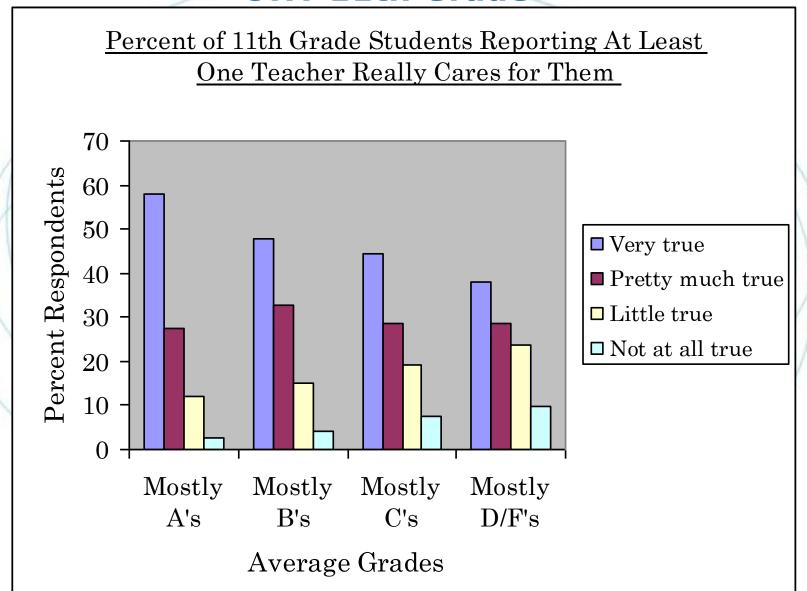
Correlation between grades and unmet mental health needs OHT 8th Grade



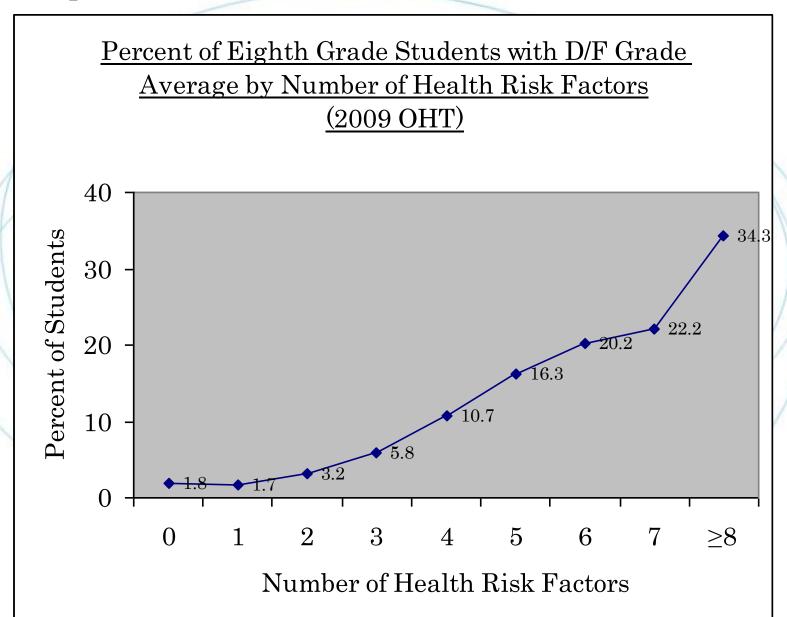
Correlation between grades and caring adult OHT 8th Grade



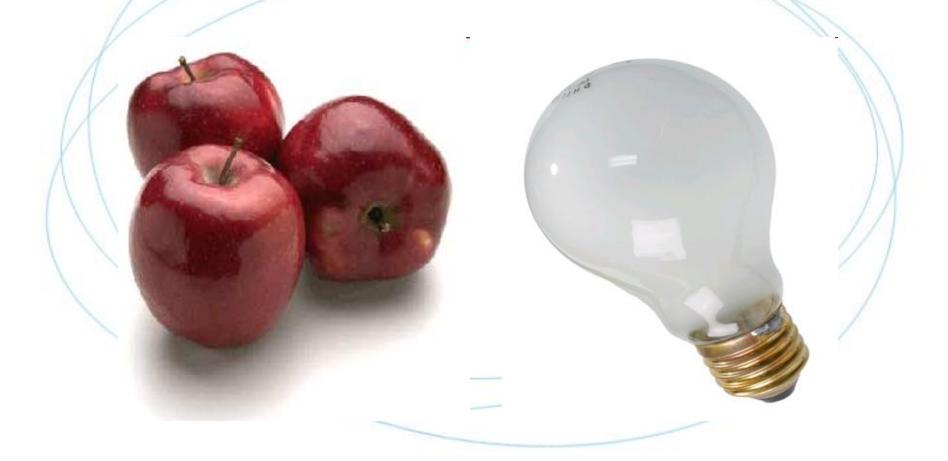
Correlation between grades and caring adult OHT 11th Grade



Every Health Risk Makes a Difference



What came first the health or the learning?



What We Know: The health-academic outcomes connection

Address Barriers to Learning



Substance use

Mental health Proble is

Poor diet & physical inactivity

Violence

Physical illness

Self-esteem problems

Sexual behaviors

Graduation GPA

Standardized test scores

Educational Outcomes

Attendance
Dropout Rates
Behavioral Problems
Engaged in Learning
School Connecte Less

Educational Behaviors

Source: Geierstanger, S. P., & Amaral, G. (2004)

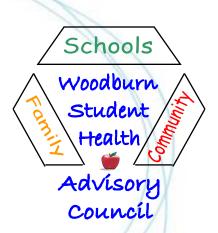
What can be done to address health in schools?



School Health Advisory Council

Coordinated School Health Strategy #1

 School and community stakeholders look at data and make pro-active decisions about how to address health related barriers to learning



 http://www.cancer.org/docroot/PED/content/PED_13_2x_Sch_ ool_Health_Councils.asp?sitearea=&level=

Student Health Behavior Data

Coordinated School Health Strategy #2

- Gather data about what health risks and protective factors are most relevant to your student population.
 - Oregon Healthy Teens Survey
 http://www.dhs.state.or.us/dhs/ph/chs/youthsurvey/index.shtml
 - Oregon Elementary Health Survey
 - School Wellness Survey
 http://www.oregon.gov/DHS/addiction/student-wellness/index.shtml

School Health Index

Coordinated School Health Strategy #3

 Determine what your school's strengths and weakness are in regards to addressing the health of students and staff. Make a measurable action plan that includes evidence based practices.

- CDC- School Health Index
 https://apps.nccd.cdc.gov/shi/default.aspx
- Alliance for a Healthier Generation- Healthy Schools Builder http://www.healthiergeneration.org/schools.aspx?id=3471

Think holistically and coordinate your efforts

Coordinated School Health Strategy #4



Results of Coordinated School Health

- Consistent messages get to kids.
- Greater likelihood for sustainability of health efforts
- Wiser use of resources; less duplication of efforts
- Improvements in student health and academic success.

Closing Thoughts

- Health is relevant to academic achievement. Academic achievement is relevant to health.
- There are many conversations about how to improve academic achievement. Health should be considered in these conversations.
- There are strategies that are effective in addressing health in schools. There are small and large things that can be done.

Key Sources

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Questions?



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