

Sustainability: Stories and Strategies

Presenters:

- ✧ Dawn Tarzian,
Superintendent, Corvallis SD
- ✧ Anne Schuster,
School Board, Corvallis SD



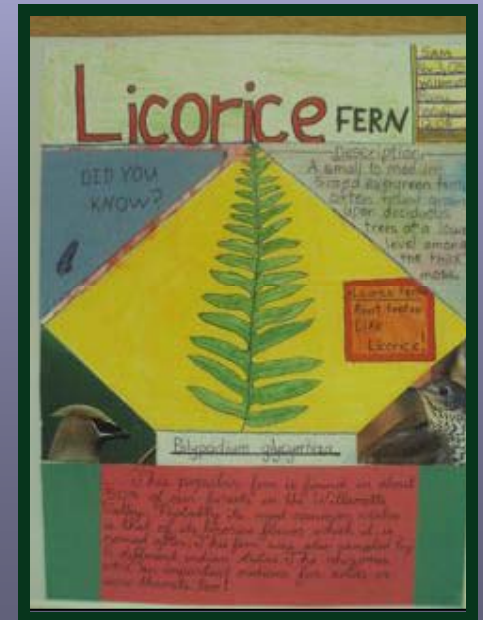
Critical Components for a School District's Journey towards Sustainability

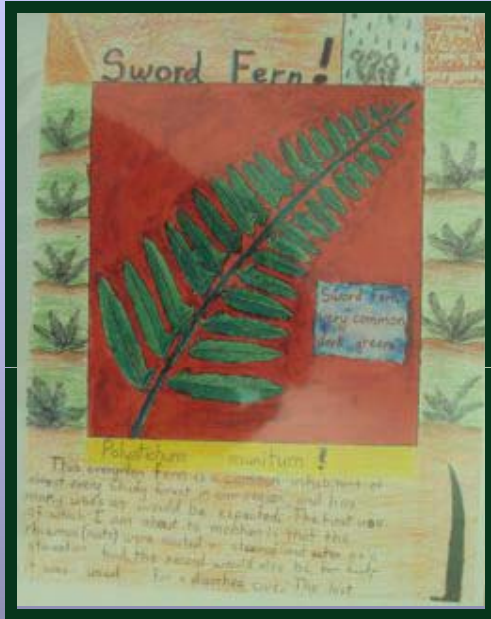


- ❖ A champion(s) for the cause
- ❖ A sustainability committee
- ❖ An adopted sustainability policy or vision or strategic goal
- ❖ Sustainability training for all district staff
- ❖ Two-way communication about sustainability efforts between central office and all school sites

Timeline for Corvallis Sustainability Plan

- ✧ **2007**--Community visioning
- ✧ **2008**--School board adopts goal
- ✧ **2009**--Superintendent convenes Steering Committee
- ✧ **2010**--Committee completes matrix
- ✧ **Ongoing**--implementing the matrix





Education & Career Awareness

- ✧ Education for Sustainability
- ✧ Career Preparation
- ✧ Education for Staff
- ✧ Service Learning

Facilities and Operations

- ✧ Buildings
- ✧ Grounds and Landscaping
- ✧ Indoor Environment/Toxics

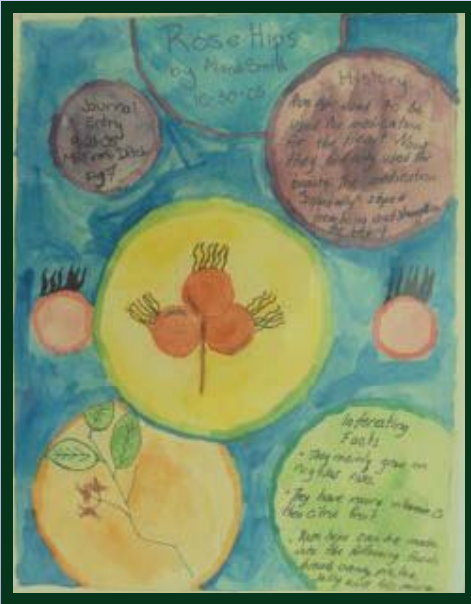
Systems and Services

- ✧ Food and Wellness
- ✧ Transportation
- ✧ Procurement and Resource Management
- ✧ Management System

Community and Culture

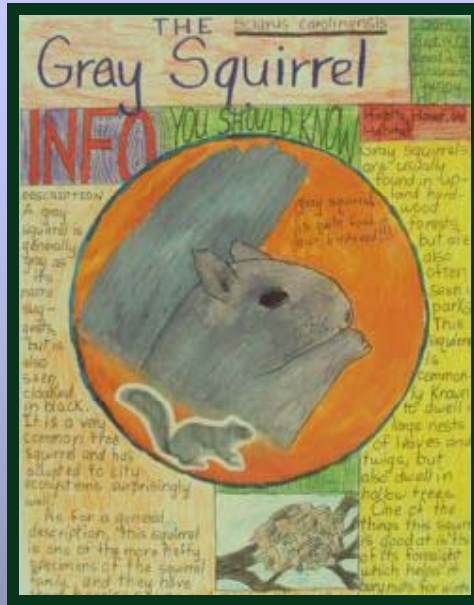
- ✧ Community Involvement
- ✧ Multi-Cultural Proficiency
- ✧ Communications

Education for Sustainability

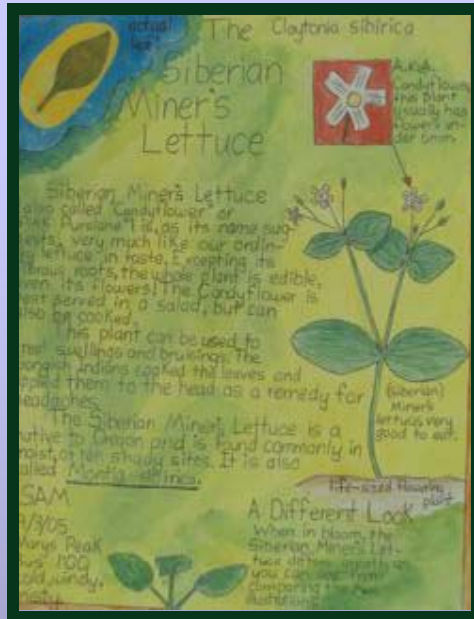


- ✧ Identify and adopt sustainability learning power standards
- ✧ Designate where each standard will be taught (grade level, subject area)
- ✧ Determine which standards are addressed with current curriculum
- ✧ Develop and adopt additional curricular materials to fully cover standards
- ✧ Train teachers around standards and where they are to be taught (grade, subject)
- ✧ Train teachers in use of new curricular materials
- ✧ Make teachers aware of additional resources for sustainability education, particularly community partners (Dream Team)

School District web page for Sustainability:



<http://www.csd509j.net/key%20initiatives/Sustainability/index.html>



High School Counts-- graduation requirements

HIGH SCHOOL COUNTS!
 Prepare for the future now...

CORVALLIS HIGH SCHOOL
 1400

CORVALLIS HIGH SCHOOL
 Corvallis School District 509J
 2009-2010

High School Counts: Sample page



Architecture & Engineering

A sample high school program preparing you for a career in Architecture or Engineering

Grade	Course	Units
9th Grade	English - American Literature	1
9th Grade	Mathematical Foundations	1
9th Grade	Algebra I or Algebra II & 2nd Semester	1
9th Grade	History/Geography	0.5
9th Grade	Science	0.5
9th Grade	Career Development / Advisor	0.125
10th Grade	English - World Literature	1
10th Grade	Chemistry or Physics	1
10th Grade	Geometry or Algebra 2 or 2nd Algebra	1
10th Grade	Global Studies	0.5
10th Grade	Health I	0.5
10th Grade	Science	0.5
10th Grade	Career Development / Advisor	0.125
11th Grade	English - American Literature	1
11th Grade	Chemistry or Physics	1
11th Grade	Algebra 2 or "Cal Alg" or "AP Statistics" or "AP Calc"	1
11th Grade	Health 2 or "Health-Medicine"	0.5
11th Grade	AP Calc	0.5
11th Grade	Science	0.5
11th Grade	Career Development / Advisor	0.125
12th Grade	Senior English Review	1
12th Grade	AP Chemistry or AP Physics	1
12th Grade	Cal Alg/Trig or AP Statistics or AP Calculus	1
12th Grade	AP Government or Oregon Government	0.5
12th Grade	Senior Student Director	0.5
12th Grade	Senior	1
12th Grade	Career Development / Advisor	0.125

Recommended Electives:

- Computer in Learning Skills
- World Languages
- Art and Architecture
- Computer Applications
- Engineering I
- Art and Architecture
- Science to Engineering

*Transfer to Intended College/University

A sample college program for a career in Architecture or Engineering

COMMUNITY COLLEGE

- LBCC Certificates and Applied Science Degree
 - Civil Engineering Technology
 - Drafting and Engineering
 - Graphics Technology
- LBCC Transfer Degree
 - Engineering

UNIVERSITY

- Bachelor Degree
 - Oregon State University
 - Agricultural Engineering, Chemical Engineering, Civil Engineering, Engineering Physics, Environmental Engineering, Industrial and Systems Engineering, Manufacturing Engineering, Mechanical Engineering, Nuclear Engineering, Urban Engineering
 - University of Oregon
 - Architecture, Urban and Regional Planning, Architecture and Interior Architecture, Engineering Physics, General Engineering

Do you like to take things apart to figure out how they work? Do you enjoy building things? A career in engineering uses the principles of both science and mathematics to design, develop and test things in electronic, mechanical, and physical structures. A career in architecture entails designing buildings and structures along with playing close attention to their appearance, function, and overall safety.

Careers in Architecture and Engineering		
Average Entry Level Yearly Income		
Architects	Chemical Engineer	Civil Engineer
\$41,460	\$59,628	\$50,340
Landscape Architect	Mechanical Engineer	Surveyor
\$40,866	\$54,520	\$48,000

Check out the Career Information System Website for specific college degree requirements at <http://www.careerinformation.org>

Yearly salaries based on information obtained in 2009 from the Career Information System.

What else should I be doing?

- Learn about the many fields of engineering.
- Consider joining the Robotics Club.
- Do an internship or job shadow with an engineer or an engineering firm that specializes in an area that you are interested in.
- Attend career fairs at both Linn-Benton Community College and Oregon State University.
- Join the Robotics Club.
- Attend the LBCC Summer Academy in Engineering or a related field.

Linn-Benton Community College courses required for an Associate of Science Degree with an emphasis in Engineering

Required General Education Classes:

- Mathematical Science
- Chemistry for Engineering/Physics
- Cultural Diversity
- Science, Power & Electrification
- Mathematical Calculus
- English Composition
- General Physics or Calculus
- Universal Health & Fitness
- Social Processes & Institutions
- Speech I or Speech II
- Technical Writing
- Modern Culture

Required Program Classes:

- Applied Differential Equations
- Calculus
- Proprietary Chemistry
- Chemistry for Engineering/Physics II
- Engineering Electives
- Engineering University I & II
- General Physics or Calculus
- Integral Calculus

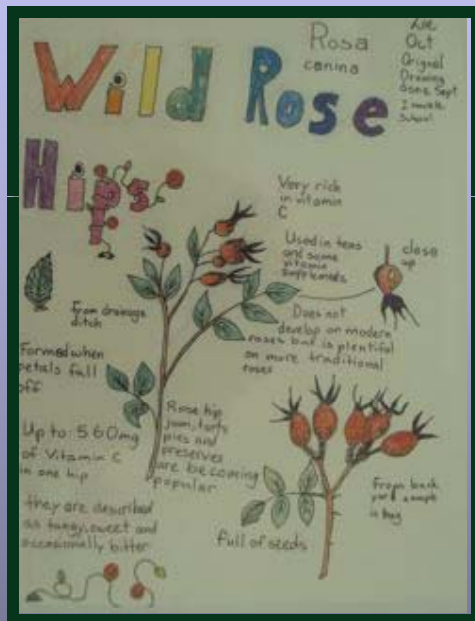
*Transfer to college courses that can be completed in high school through the college's program.

Examples of Integration into Curricula



- ✧ Internship
- ✧ Student Learning Projects
 - No idling
 - Solar panels
 - Oregon Green Schools
- ✧ SPARKS
- ✧ Foss Science Kits

Advantages to Becoming a Sustainable School District



- ❖ Preserving the world for future generations.
- ❖ Financial savings.
- ❖ Students asking for it.
- ❖ An opportunity to simplify and become more efficient.
- ❖ Health benefits.