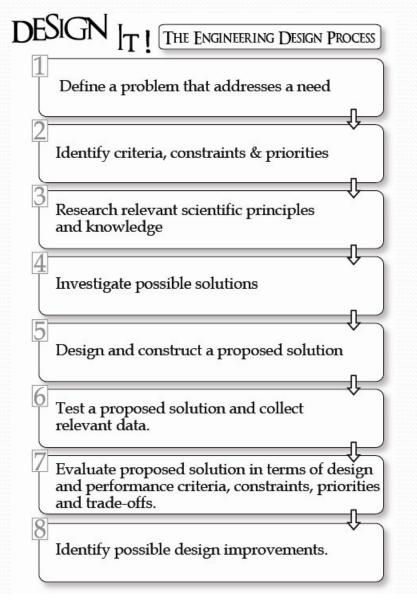
Engineering Design in OregonScience Classrooms

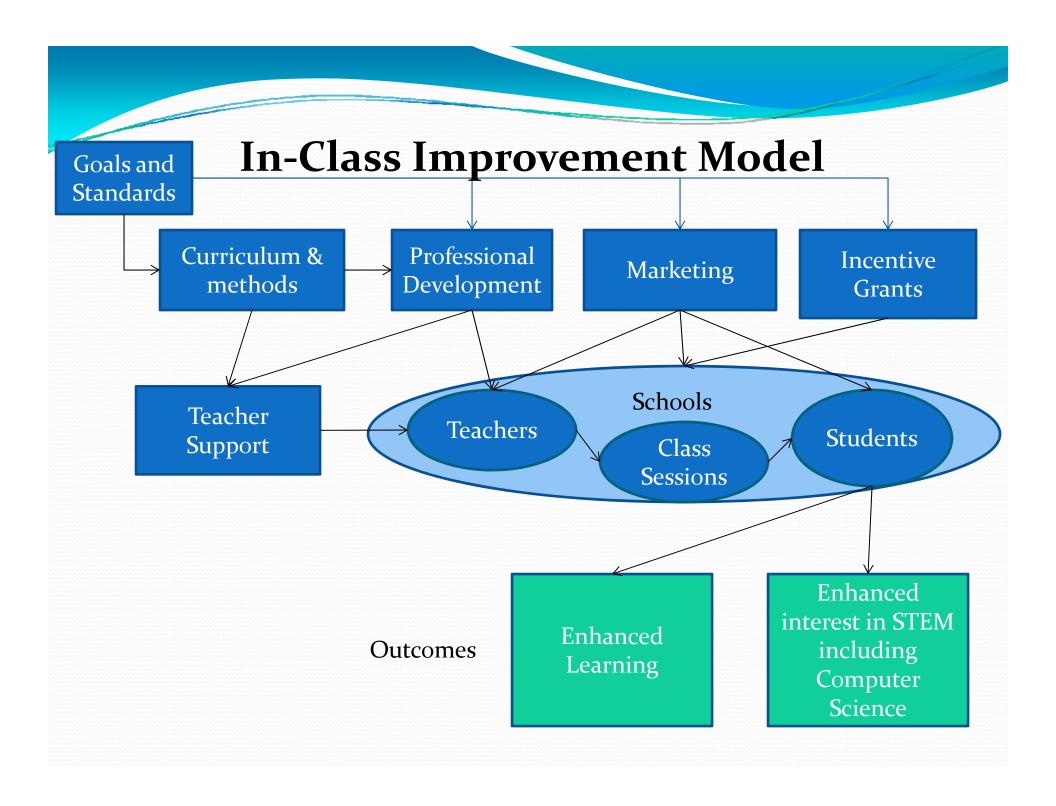
Taking It Statewide

Bruce Schafer October 28, 2011

Oregon Science Standard now includes Engineering Design



8th Grade Standard



Goals

- Primary: Enhance student learning of science via engineering design
 - as a learning process
 - sister to scientific inquiry.
- Additional goals
 - enhancing students' problem solving skills
 - giving students insight into
 - nature of engineering design
 - profession of engineering.
 - re-enforcing system that will sustain itself in the face of limited resources.
 - leave the door open to
 - New national science standards and state adaption/adoption
 - Incorporation of computational thinking

Strategy

- Developing teacher leaders with a focus on engineering design
- Creation of an engineering design primer
- Selection and development of recommended learning exercises
- Professional development for teachers
- Teacher support and professional learning communities
- Marketing to teachers and administrators
- Mini-grants to districts to cover start-up costs and provide incentive for change

Milestones

- Prototype
- Beta Test
- Limited Roll Out
- Scale Up

Prototype and Beta Test

