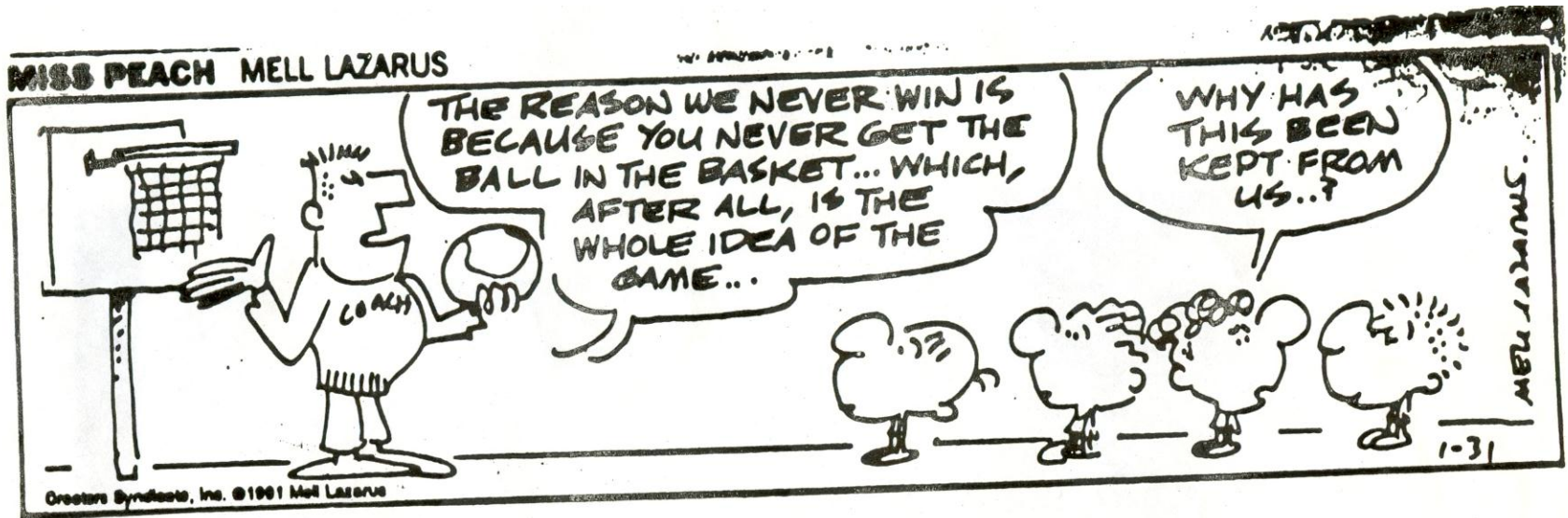


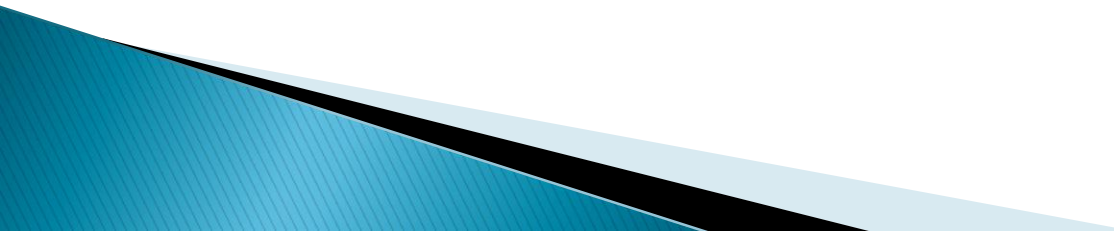
# Teaching and Assessing for 21<sup>st</sup> Century Skills

Mary Diez, Ph.D., Alverno College  
Patricia Hoben, Ph.D., Carmen High School of  
Science and Technology

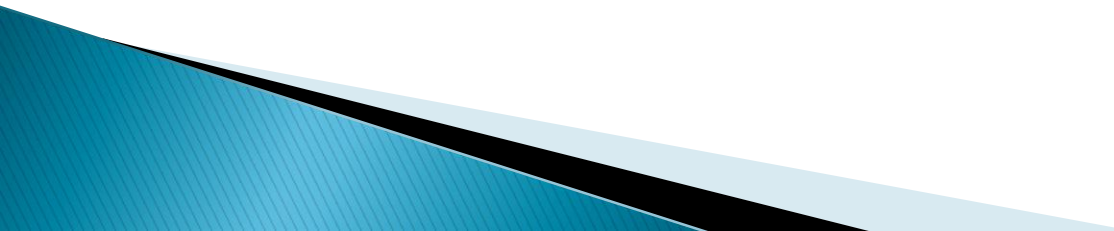
# *Why being clear about outcomes is important:*



# Alverno Principles

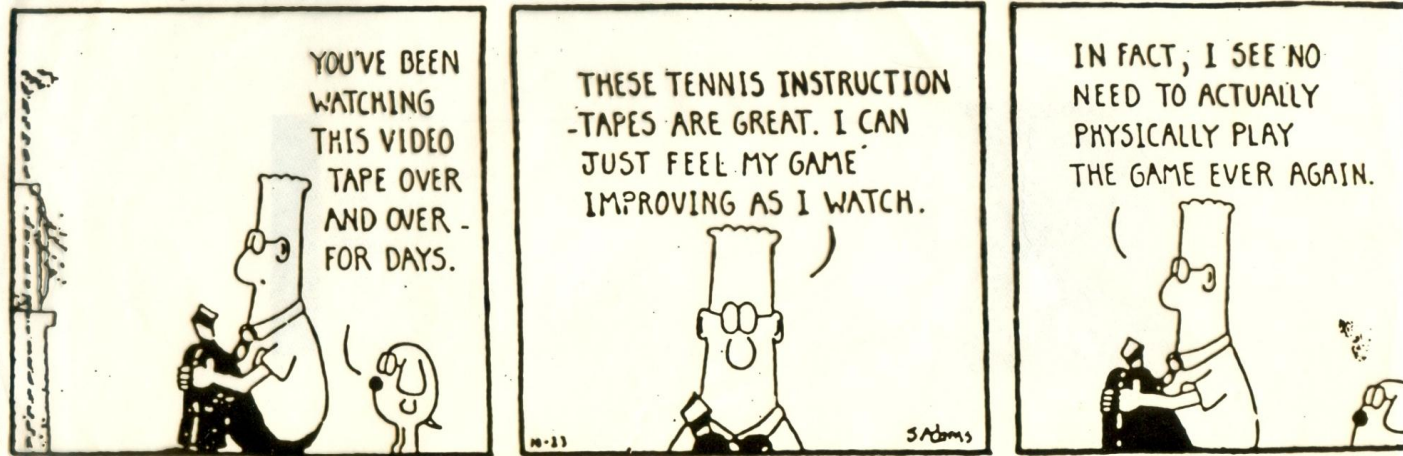
- ▶ Educators are RESPONSIBLE for making learning more available by ARTICULATING OUTCOMES and making them PUBLIC
  - ▶ Alverno outcomes are ABILITIES that
    - Involve the whole person
    - Create pathways for development
    - Can be assessed
    - Transfer across settings
    - Are continually re-evaluated and re-defined
- 

# Alverno Abilities

- ▶ Communication
  - ▶ Analysis
  - ▶ Problem Solving
  - ▶ Valuing in Decision-Making
  - ▶ Social Interaction
  - ▶ Developing a Global Perspective
  - ▶ Effective Citizenship
  - ▶ Aesthetic Engagement
- 

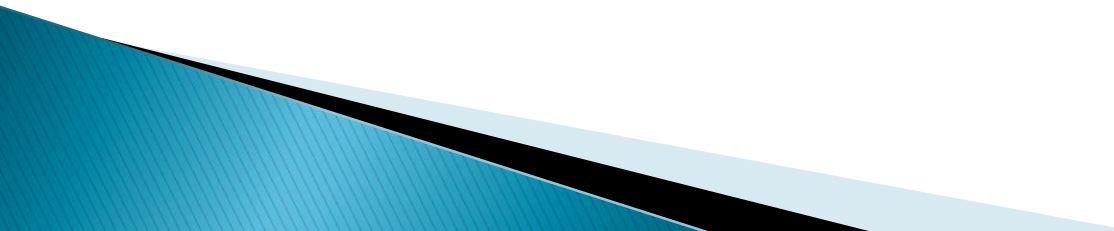
# *What makes sense in assessing learning outcomes:*

DILBERT™ by Scott Adams



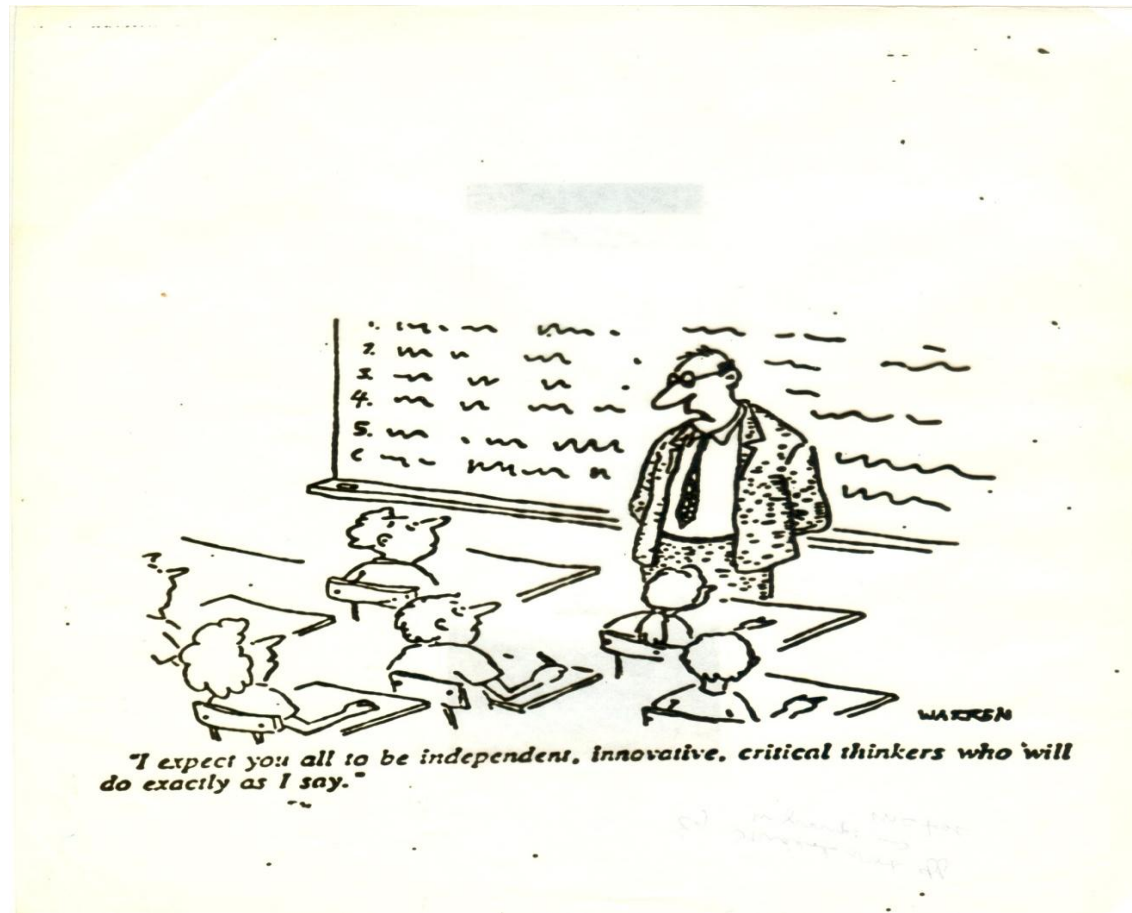
# Key Principles of Performance Assessment

Outcomes (21<sup>st</sup> Century Skills) need to

- ▶ Be developed and assessed in the context of core subject area content
  - ▶ Make connections across subject areas
  - ▶ Be assessed in authentic situations
  - ▶ Be developmental in nature
  - ▶ Be linked to quality performance criteria
  - ▶ Be supported by self assessment and goal setting for continued learning
- 



# *How can we make teaching practice consistent with outcomes?*



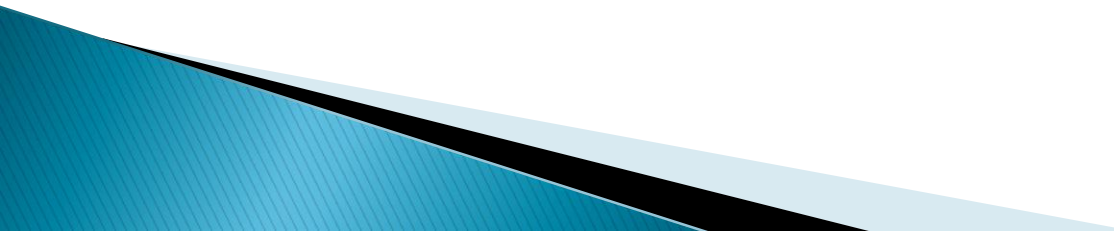
# InTASC

## Model Core Teaching Standards

InTASC (2011)

### Standard #5: Application of Content

The teacher understands how to *connect concepts* and *use differing perspectives* to engage learners in *critical thinking, creativity*, and *collaborative problem solving* related to *authentic local and global issues*.

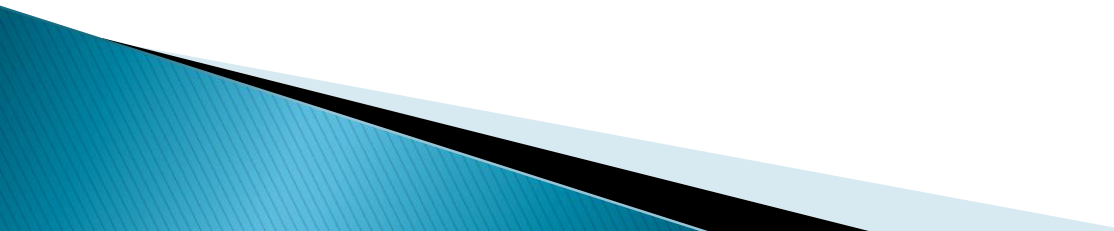




# *What looks different in teaching and assessment at Carmen?*

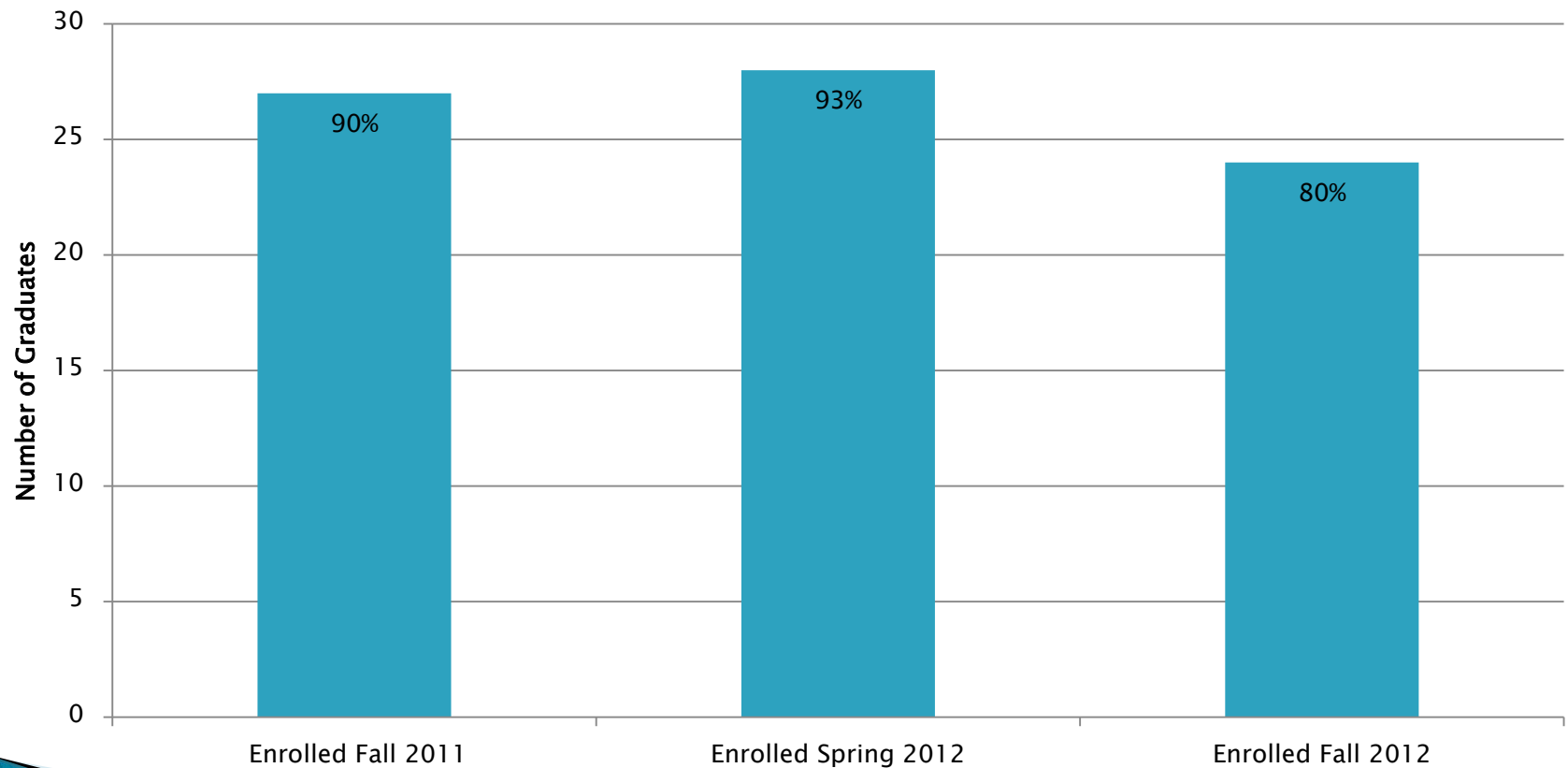
- ▶ Teaching is guided by grades 9–12 learning progressions driven by Common Core and ACT College Readiness Standards
  - Faculty align curriculum with the standards over four years
- ▶ Assessments integrate both content and 21<sup>st</sup> Century skills

# Carmen High School of Science and Technology Outcomes

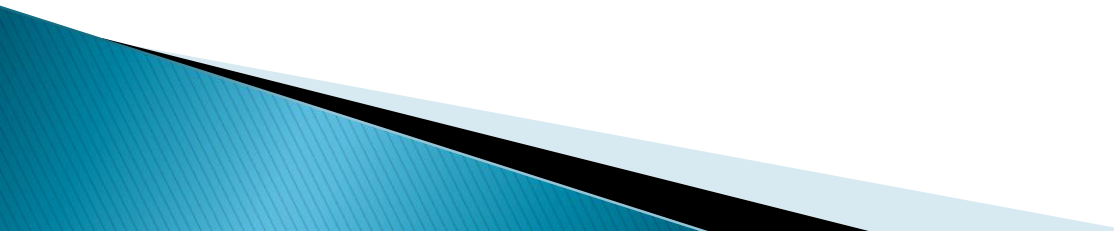
- ▶ Describe what 21<sup>st</sup> Century skills high school level students need to demonstrate career and college readiness
  - ▶ Were developed by Carmen faculty, working with subject area faculty from Alverno
    - Developmental levels appropriate to high school
    - Links to Common Core learning progressions
  - ▶ Are demonstrated through authentic performance assessments, across the four years of the high school curriculum
- 

# Impact on Student Achievement

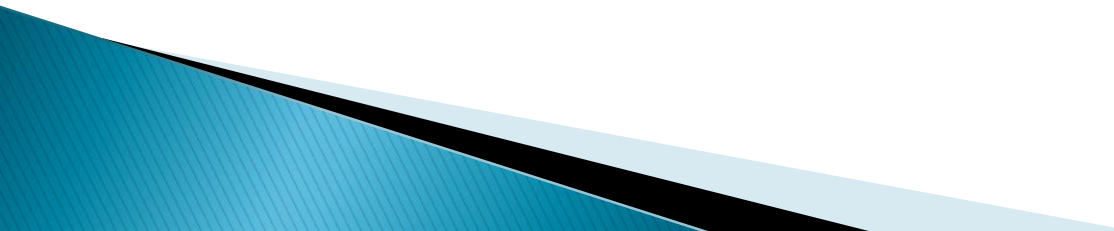
## Class of 2011 College Enrollment



# Sample Assessments

- ▶ 1. Social interaction, valuing in decision making and speaking assessment for entering 9<sup>th</sup> grade students.
  - ▶ 2. Effective Citizenship, valuing in decision making, analysis, and writing assessment for 10<sup>th</sup> and 11<sup>th</sup> grade chemistry students.
- 

# Closing question

- ▶ What will it take for Wisconsin high schools to work toward InTASC standard #5?
  - ▶ How can we find pathways for other schools to integrate 21<sup>st</sup> century skills in the high school curriculum?
- 

# Closing Thoughts

- ▶ Everything you learn goes with you.

