



# United States Department of Education

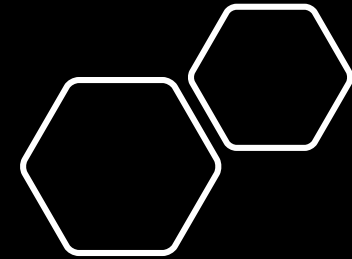
- [Presidential Initiatives](#)
- [Technology Innovation Challenge Grants](#)
- Five-year Projects
- Over 80 Awards since 1995

... one of 19 awards in 1997



First year funding of \$1,345,777

Five year award of \$6,527,645



## ***Grant Objectives:***

- 1. Identify reading, writing, mathematics and science achievement standards, benchmarks and accountability measures for students.**
- 2. Create a career connection to integrated core academic studies that increases the relevancy and authenticity of learning.**
- 3. Train teachers and students to access and utilize existing technologies, to create original instructional materials, and to collaborate with business partners in co-development of resources.**
- 4. Contribute to national educational networks using telecommunications to disseminate products and best practices.**

# Who We Are

## Manual Arts High School

Los Angeles, CA  
Hub Site Manager:  
*Michael Lovelady*



Manage curriculum content:  
*Language Arts/ESL*

## Fort Leavenworth USD #207

Fort Leavenworth, KS  
Hub Site Manager:  
*Cindy Olesen*



Manage curriculum content:  
*Grades K - 8*

## North High School

Omaha, NE  
Hub Site Manager:  
*Elaine Westbrook*



Manage curriculum content:  
*Science*

## Advanced Technologies Academy

Las Vegas, NV  
Hub Site Manager:  
*George Breaz*



Manage Curriculum Programs:  
*Applications and Training*

## Sprayberry High School

Marietta, GA  
Hub Site Manager:  
*Bob Downs*



Manage curriculum content:  
*Social Studies*

## Mainland High School

Daytona Beach, FL  
Hub Site Manager:



Manage the grant project and  
curriculum content:  
*Mathematics*

# National Standards Content With a Purpose

- TIES: Technology Information and Educational Service

National Curriculum Experts from NCTM, NCSS, ISTE, AECT  
Documentation/APA  
Staff development and training



- IST: Institute for Simulations and Training/UCF

Raven 3D Algebra Software Development



## *New Projects: Connections and Partners*



UNLV UNIVERSITY OF NEVADA, LAS VEGAS

## Filters for selecting Enduring Understandings

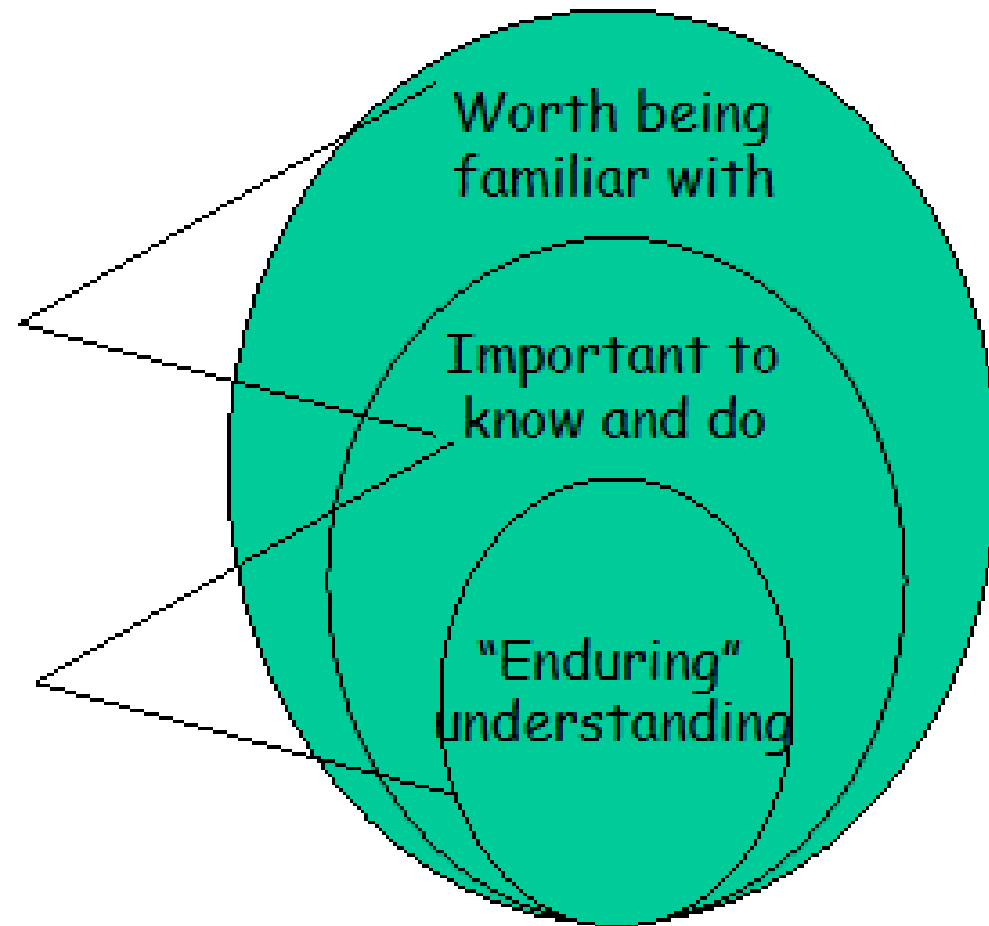
Represent a big idea having enduring value beyond the classroom  
Reside at the heart of the discipline (involve "doing the subject").  
Require uncovering of abstract or often misunderstood ideas.  
Offer potential for engaging students.

"Enduring"  
understanding

# Curricular Priorities and Assessment

## Assessment Types:

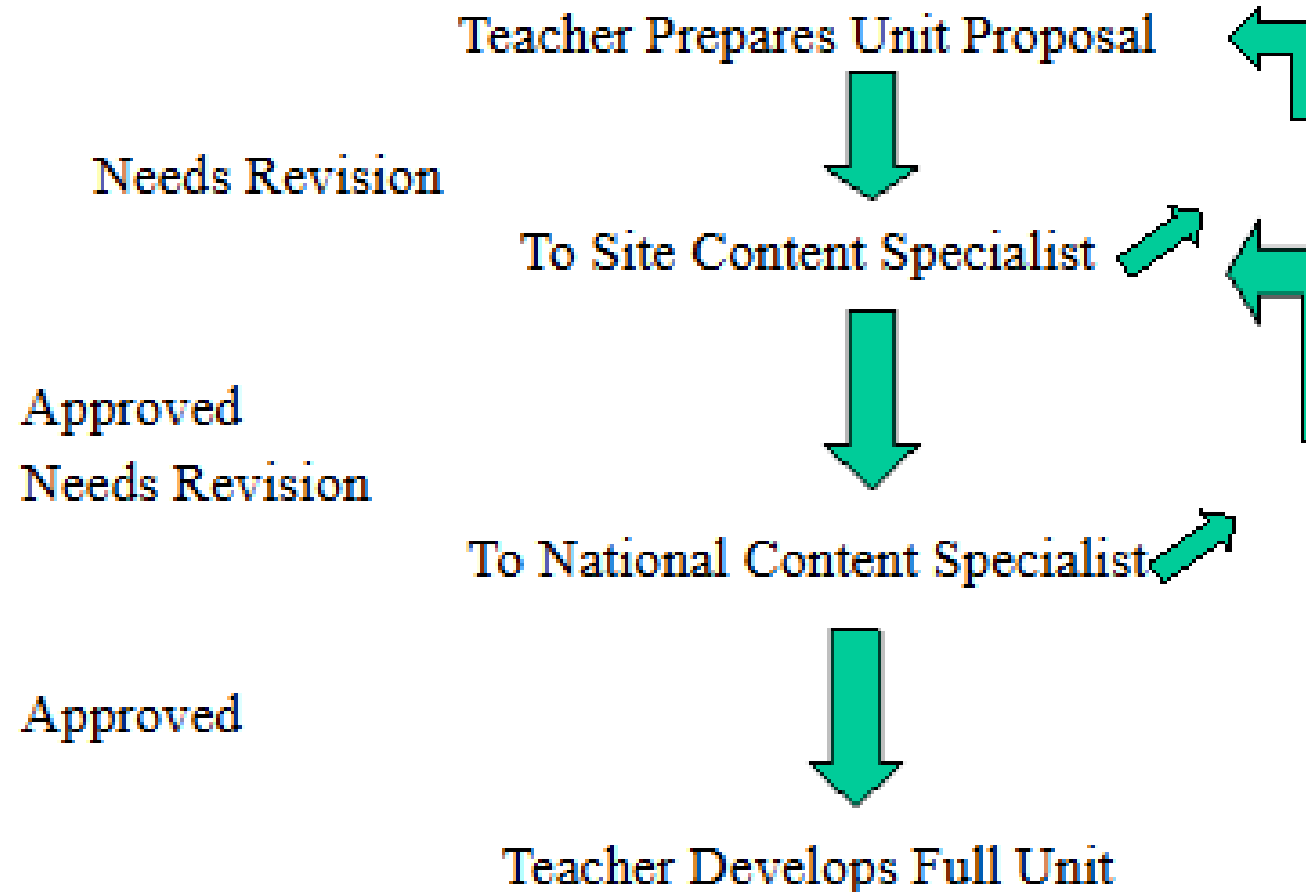
- *Traditional quizzes and tests*
  - Paper/pencil
  - Selected response
  - Constructed response
- *Performance tasks and projects*
  - Open - ended
  - Complex
  - Authentic



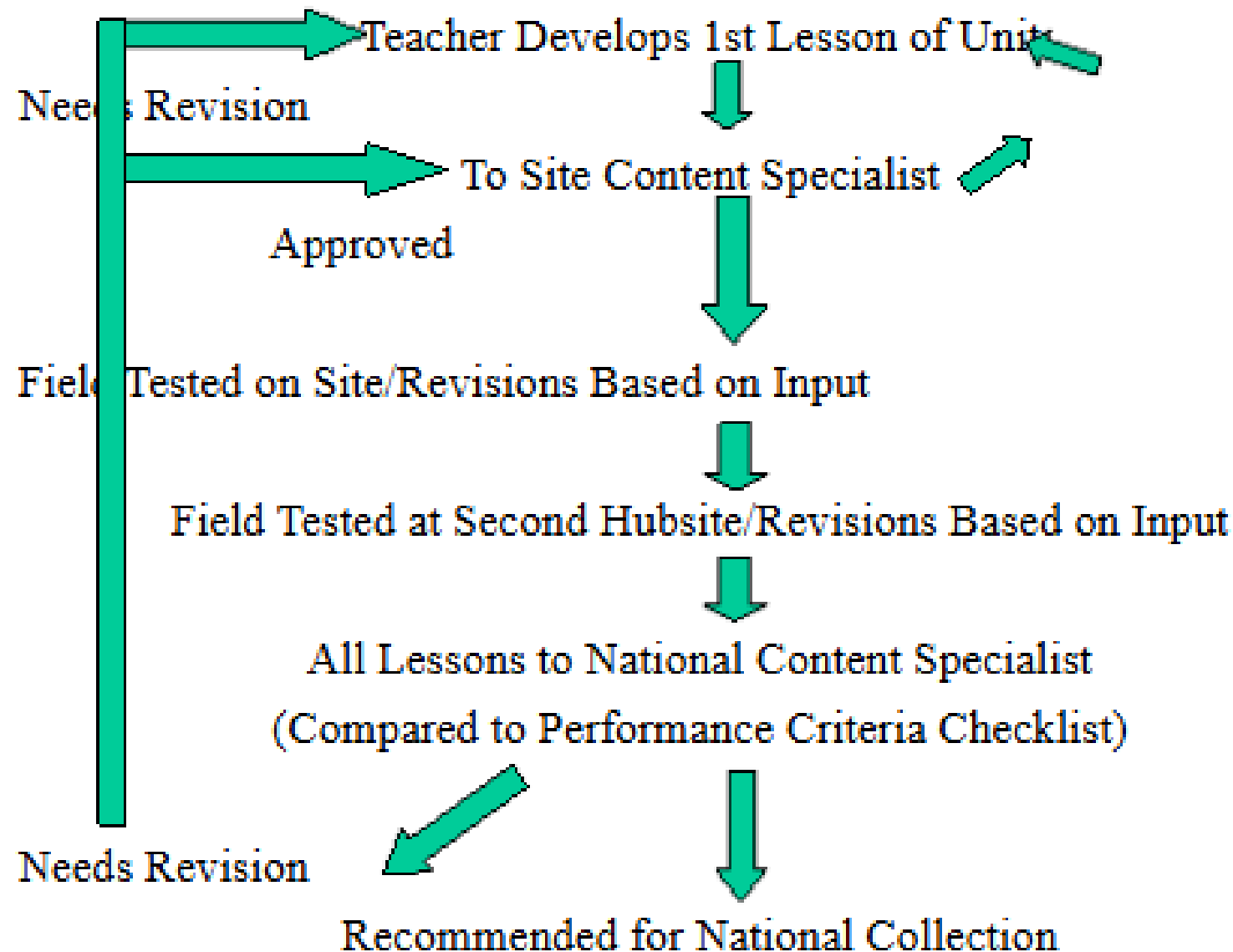
Credit:  
Grant Wiggins



# The Process



# THE PROCESS (con't.)



# Preliminary Checklist

The Preliminary Checklist helps teachers define their proposed plan or idea for a unit. The checklist is completed by hub site teachers, sent by e-mail or hard copy to the hub site manager, and forwarded to the content specialists.

- Unit Title/Grade Level:
  - What do you want the students to know and be able to do (the fundamental understandings)?
  - Which national standards (content, technology, and information literacy standards) do the fundamental understandings align with, and how?
  - What is the relevance and significance of these fundamental understandings?
  - Assessment-how will you know that the students have learned?
- What is the context for this learning? (Prior and future understandings as well as developmental appropriateness.)
  - What are the components of your unit and how will each component contribute to the learning of all students?
  - URL where currently located.
  - Workforce competencies.
  - Cross-curricular connections.
  - Acknowledgments.

# Exemplary Products Checklist

## FOCUS WILL BE ON:

- what students are learning rather than on what teachers are teaching
- using effectively the technologies that dominate the greater society
- information
- cutting-edge content
- customized curriculum units

## THE CHECKLIST IS:

- directed at fostering the development of standards-based, technology-rich content for 21st Century learning centers
- directed at ensuring that essential concepts of the core disciplines - what students should know and be able to do-form the basis of the unit
- organized around several components:
  - general considerations
  - student learning
  - assessment
  - technology

# **Collaborative Projects**

## **Regional and School Projects**



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