



Consider your **BEST** and **WORST** professional learning experiences:

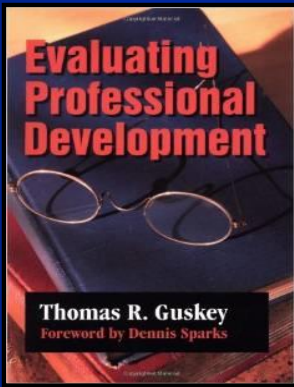
1. What was the **topic**?
2. Who **planned** it?
3. Who **led** it?
4. What were the **results**?

Five Levels of Professional Learning Evaluation:

1. Participants' **reactions** to the experience
2. Participants' **learning** from the experience
3. Organization **support & change**
4. Participants' **use** of new knowledge & skill
5. Results: **Student Learning Outcomes**

Five Levels of Professional Learning Planning:

5. Results: **Student Learning Outcomes**
4. Research-based **Practices and Strategies**
3. Necessary **Organization Support and Change**
2. Essential participant **Knowledge and Skills**
1. Effective **Professional Learning Experiences**



2. Bad News:

We don't have much valid evidence on *effective professional learning!*



“Summary of Research on the Effectiveness of Math Professional Development Approaches”

Gersten, R., Taylor, M. J., Keys, T. D., Rolhus, E., & Newman-Gonchar, R. (2014). *Summary of research on the effectiveness of math professional development approaches*. (REL 2014-010). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance, Regional Educational Laboratory.

Design:

- 1. **910 research studies** of the effectiveness of professional development in math.
- 2. **Selection criteria:** U.S. Department of Education “What Works Clearinghouse” Evidence Standards (Version 2.0).

Findings:

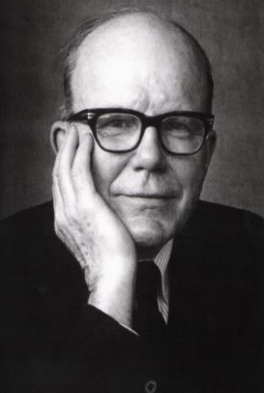
- 1. Only **5 studies** met the selection criteria.
 - **2 found positive effects on students’ math proficiency**
Intensive math content courses accompanied by follow-up workshops (McMeeking, Orsi, & Cobb, 2012)
Lesson study focused on linear (measurement) model of fractions (Perry & Lewis, 2011)
 - **1 found limited effects**
Cognitively Guided Instruction (Carpenter, Fennema, Peterson, Chiang, & Loeff, 1989; Jacobs, Franke, Carpenter, Levi, & Battey, 2007)
 - **2 found no discernable effects**
America’s Choice (Garet et al., 2010, 2011)
Pearson Achievement Solutions (Garet et al., 2010, 2011)

Conclusion from Gersten et al., (2014):

“There is very limited causal evidence to guide districts and schools in selecting a math professional development approach or to support developers’ claims about their approaches.”




Further Good News:
“No improvement effort in education has **ever** succeeded in the absence of significant professional development.”
Guskey (2000)



More Good News:
These ideas are not new!

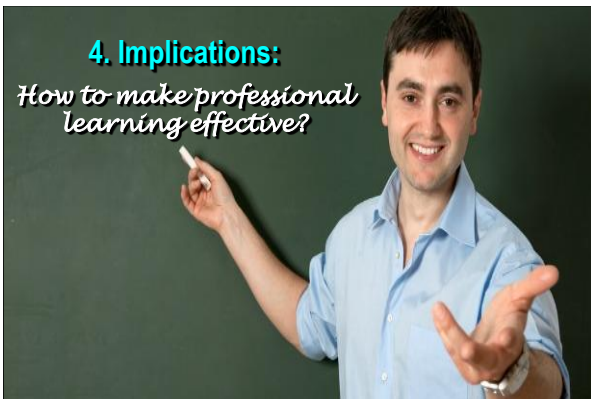
- ✓ **Ralph W. Tyler**
- ✓ *Basic Principles of Curriculum and Instruction* (1949)
- ✓ **Two Fundamental Decisions:**
 - A. What do I want students to learn?
 - B. What evidence would I accept to verify their learning?

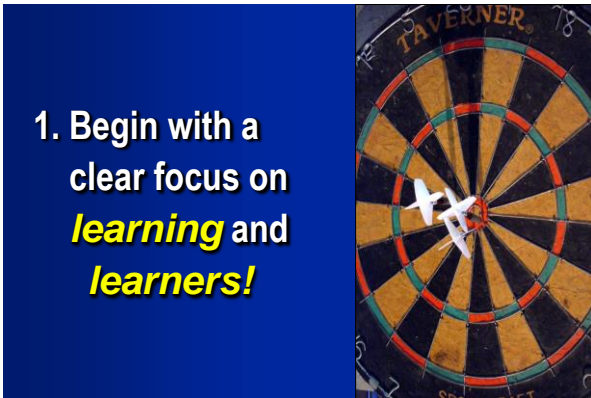


Begin with the end in mind!

What **student learning goals** do you want to achieve?

What **evidence (data)** best reflects those goals?









Clear goals help mobilize **everyone** and keep efforts **on task!**

Clear goals prevent distraction by peripheral issues that **waste crucial time** and **divert energy!**





2. Engage in **rigorous self-analysis!**



Self-Analysis requires:

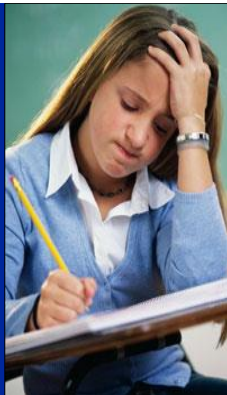
- 1. **Courage** to ask tough questions.
- 2. **Skill** to find honest answers.



Reaching your **goals** requires a clear sense of **where you are**.

We must continually ask:

- 1. Who is not learning?
- 2. Why?
- 3. What can we do about it?





3. Recognize change is an **individual** and **organizational** process.

Stages of Concern

1. Personal
2. Management
3. Impact

From: Hall, G., Wallace, R. & Dossett, W. (1973). *A developmental conceptualization of the adaptation process within educational institutions*. Austin, TX: Research and Development Center for Teacher Education, University of Texas.

Order of Change

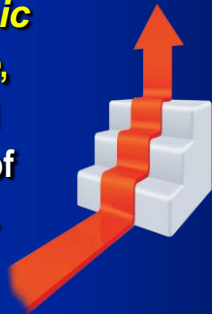
- ➔ Teacher Attitudes and Beliefs
- ➔ Teaching Practices
- ➔ Student Learning

From: Guskey, T. R. (1986). Staff development and the process of teacher change. *Educational Researcher*, 15(5), 5-12.



4. Think **big**, but start **small!**

Change is **dynamic**
and **large scale**,
but implemented
through a series of
smaller steps.





5. Provide
follow-up,
support, and
pressure!

For help or additional information:

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