

THE FUNDAMENTALS OF UNDERSTANDING BY DESIGN

BY JAY McTIGHE

6

KEY TENETS

3

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5

FAQs

WHAT IS UNDERSTANDING BY DESIGN (UbD)?



Understanding by Design™ is a curriculum-planning framework designed to prepare students to apply their learning to the new opportunities and challenges they will face in a rapidly changing world. Its three-stage design process helps educators focus on the key ideas and processes students should acquire, and then shows them how to work “backward” to figure out the best ways to enable that learning. UbD is not a prescriptive program, nor does it dictate teaching methods; rather, it’s an effective way of thinking about, and planning for, rigorous and meaningful learning. The UbD framework can be used by teachers in all content areas and at all grade levels.



THE BIG IDEAS OF UbD: SIX KEY TENETS

1

The framework helps focus curriculum and teaching on the development and deepening of student understanding and transfer of learning (i.e., the ability to effectively apply their learning).

2

Understanding is revealed when students can make sense of, and transfer, their learning through authentic performance. Six facets of understanding—the capacity to explain, interpret, apply, shift perspective, empathize, and self-assess—can serve as indicators of understanding.

3

Effective curriculum is planned “backward” from long-term outcomes through a three-stage design process. This process helps avoid three common educational problems: (a) treating the textbook as the curriculum rather than as a resource; (b) activity-oriented teaching in which no clear priorities and purposes are apparent; and (c) “test prep” whereby students practice the format of standardized tests (usually selected-response) while concentrating only on tested content.

4

Teachers are coaches of understanding, not mere purveyors of content knowledge, skill, or activity. They focus on ensuring that transfer of learning happens, rather than just assuming that what was taught will be learned.

5

Regular reviews of curriculum against design standards enhance curricular quality, leading to deeper learning. Concomitant reviews of student work in professional learning communities (PLCs) inform needed adjustments to curriculum and instruction so that student learning is maximized.

6

Teachers, schools, and districts can “work smarter” and more effectively by sharing their curriculum and assessment designs with others; for example, through the Eduplane+21 Unit Planner.

Source: McTighe & Wiggins, 2005

THE THREE STAGES OF BACKWARD DESIGN



IDENTIFY DESIRED RESULTS.

On what long-term transfer goals will this unit focus? What should students come to understand by the unit’s end? What essential questions will students explore to drive their search for understanding? What knowledge and skill will students acquire by the end of the unit?



DETERMINE ACCEPTABLE EVIDENCE.

What student performances and products will reveal evidence of understanding and transfer? What additional assessment evidence will be used to assess mastery of other desired learning outcomes?



PLAN LEARNING EXPERIENCES AND INSTRUCTION.

What teaching and learning experiences will help students achieve the desired results and succeed on the assessments? What specific components of the learning will help students acquire new information, make meaning, and transfer what they are learning? How should the unit be sequenced and differentiated to optimize all learners’ achievement?

READY TO GET STARTED?



The three-stage UbD Unit Template provides a practical organizer and has proven especially useful for practitioners new to Understanding by Design. It prompts teachers and curriculum teams to think purposefully about all of the design elements and to ensure that all three stages are properly aligned. The common format of the template enables educators to readily share unit plans with others throughout the world.

Source: Adapted from Wiggins & McTighe, 2005.

Understanding By Design

Huangqi Zhang



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