



Backwards Teaching: Using 3 Part Lessons in Math

Course Overview: Have you ever heard of "teaching backwards"? We often hear about backwards design when it comes to instructional planning but this is different. A "3 part lesson" uses the final phase for most of the teaching. In this practical course, learn how to engage your students in math by incorporating Activation, Problem-Solving and Consolidation. See how teachers act as facilitators by coordinating the sharing of student solutions, and the use of questioning to help students make connections between their own mathematical ideas and the ideas of others.

This 3.5 hour course explains each phase and provides practical examples, strategies and tips for implementing this type of lesson into your math classroom.

Objectives

- Learn about the different parts of the 3 part lesson
- Develop ideas and strategies for teaching using this instructional technique
- Understand how to implement the parts during the course of your lessons

Outline

1. UNIT 1: WHAT IS A 3 PART LESSON?
 - 3 Part Lesson (20 min)
 - Sketch of a Three Part Lesson (5 min)
 - Lesson Planning Template (15 min)
 - Bansho, Gallery Walk, and Math Congress (15 min)
2. UNIT 2: ACTIVATION PHASE – PART 1
 - Teaching Academic Vocabulary (10 min)
 - Algebra-Ms. Jones' Warm Up (15 min)
 - How do you activate prior knowledge? (5 min)
3. UNIT 3: ACTION PHASE – PART 2
 - Think Pair Share (15 min)
 - Communicating Effectively (20 min)
 - Organizing Students to Think, Talk, and Write (20 min)
 - How do you assess students' understanding during a lesson? (10 min)
4. UNIT 4: CONSOLIDATION PHASE – PART 3
 - The Importance of Creating Posters (15 min)
 - Honoring Student Voice (15 min)
 - How do you effectively help students summarize the lesson? (10 min)
5. SUMMARY- What do you think? (10 min)



Resources This self-paced course includes a combination of

- Streaming video and assignments from Educational Impact's (EI) [online academy](#)*
- Non-EI video from other educational websites and video sources
- Reading materials and articles
- Personal reflections and independent writing activities
- Other performance tasks designed to extend professional learning into professional practice.
- Group discussion boards (If this course is taken with colleagues in a professional learning community or other group environment)

Note* [EI Online Academy](#): This course requires you to view specific video segments from the EI Online Academy. However the **FULL** EI Online Academy is also available to you to extend your professional growth. The EI Online Academy offers access to over 400 hours of streaming video and features leading educational experts and hundreds of real classroom examples. It also includes a personal learning plan tool (PLP) and video search engine to help you target areas of specific need or interest. Even though the EI video assignments in this course are limited to content specifically related to MATH please feel free to expand your learning through the unlimited use of ALL of the resources in the EI Online Academy.

Assignments: Throughout this course you will work through a series of assignments designed to enhance your understanding of new knowledge and skills. In some cases you will be encouraged to post to your private online notebook for personal reflection. In other cases you will be asked to post to the EI instructor journal or discussion board.

- **Instructor Journal:** Instructor Journal assignment is a 1:1 discussion between you and your instructor/group leader. These postings will be cumulative and serve as an ongoing portfolio of work related to this course. Your instructor/group leader can view your responses and can comment on any of your postings. Your instructor's postings will appear inside of the Instructor Journal. If there are other learners in your group, they are NOT able to view these entries.
- **Discussion Board:** Lastly, there will be times when you are asked to post to a threaded group discussion board. The group discussion board will provide all of the learners in your group or class with opportunities for discussion, collaboration, reflection, and in certain cases peer review within their group or PLC. There will be different discussion boards created for different topics. Be sure to post to the correct discussion board... as assigned by your instructor. Leave an insightful comment and add to the thread to maintain interaction and build collaboration.
- **Reading/Writing/General Assignments:** These assignments can include an attached



URL or file. Writing and General assignments also include a text box for you to provide a written response.

Need help? Should you require technical assistance or have difficulty accessing any of the learning resources, please contact Educational Impact directly at 215-370-7666 or email EI Support at lmack@educationalimpact.com