

Enhancing Adult Learning: Apply Andragogy in Mathematics Instruction for Basic Education

Day 2

Recap of Day 1

- What is something you remember from yesterday?
- Andragogy
- Self-Directed Learning
- Transformational Learning
- Writing in Mathematics

Day 2 – Supporting Math Learners Using Adult Learning Strategies

1. Understand Adult Learners – Characteristics and motivation
2. Applying Andragogy Principles to Create a Supportive Environment
3. Build upon Prior Knowledge
4. Facilitate Active Learning
5. Address Math Anxiety
6. Offer Flexible Instruction
7. Give time for Reflection

Activity – Body at Work

- In groups work together to Activity 1 A
- Individually work on Activity 1 B
- I will be popping in and out to listen to conversations.
- You will have 30 minutes to work on this activity.
- Then we will debrief
- Take 10 minute break
- Activity 2 – 30 to 40 minutes
 - Extension activity, if time.

Debrief

- What were some challenges with completing this activity?
- Did you feel supported as you worked through the activity?
- Is this something you could incorporate in your class?

The background is a dark grey chalkboard with various white chalk sketches. On the left, there is a globe showing continents. Above it are some circular diagrams and a ruler. In the center, there are several arrows pointing in different directions. On the right, there is a detailed drawing of a microscope. The overall theme is educational and academic.

BREAK TIME

10 minutes

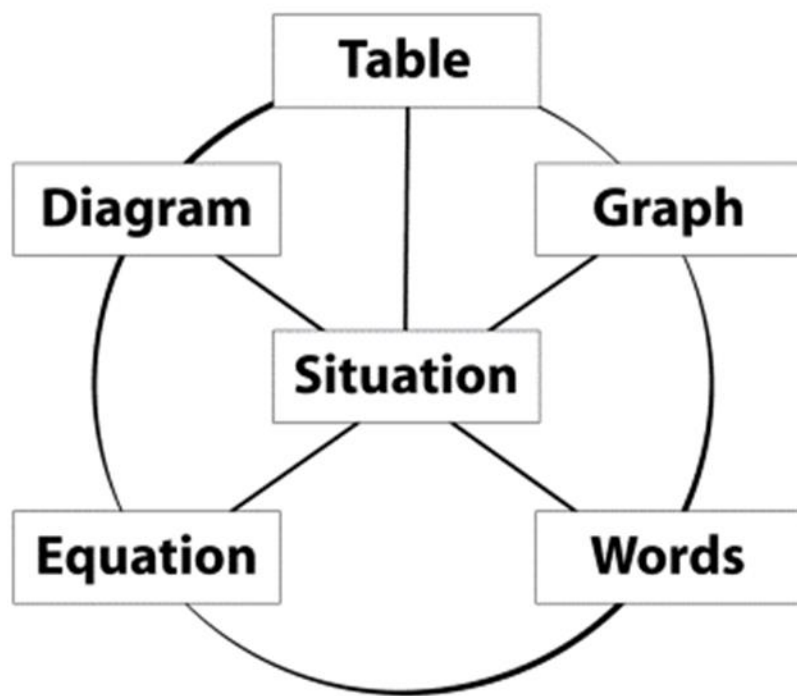
Activity 2

- In groups, work on Activity 2 – 30 to 40 minutes
 - Extension activity, if time.
- Debrief
- Final Thoughts

Debrief

- What aspects of this activity did you find to be the most interesting...
 - As a learner?
 - As a teacher?
- How do you think this real-life activity helps students understand abstract algebraic concepts?
- Can you identify any potential misconceptions students might have while engaging in this activity, and how would you address them?

A Modeling Approach Keeps the Situation Central



(From *Seeking Patterns, Building Rules: Algebraic Thinking [EMPower series]*. Teacher book, p. xxi.)

Final Thoughts

- Adults need to have a context for the content
- Being able to use math to help solve an immediate problem is the best teaching opportunity.
- Showing students where the math is used in their life changes their perception about math.



The End

Thank you!