

Science Teaching Tools for Increasing Success

True Warm ups (3 to 7 minutes)

- More question/problems than will be completed; arranged easy to challenging.
- Managed by time (students are stopped when the slowest is observed finishing the last of the “to standard” problems or beginning the next one)
- Scrambled Answer Station (with hint and answer for the most challenging question for the mega gifted.)
- Do NOT go over ... they keep in their journals or they pass in for check off

Lesson Plans with 3 curricular components

1. Old Content (drips, Drips, and/or DRIPS)
2. Future (Clouds, Sprinkles, Showers)
3. New Content (the Soak)

Lesson Plans with 8 Instructional Components

1. Clouds posted
2. Warm up
3. Yesterday(s) revisited
 - a. Table Races
 - b. Search and Rescue
 - c. Table Jam, Balloon Toss, Dice Game, ...
 - d. Support Groups (everyone makes sure everyone can do and explain all ... followed by everyone simultaneously to the boards, newspaper poster paper to all do the same problems/questions)
4. Future stuff dispersed ... sprinkles and showers
5. Home fun accountability activity
6. Soak of the New Content with
 - a. Instructional tools
 - i. Modeling with students using response journals, EVERY step by Every step processing, exact same problem before a similar
 - ii. Copy me for algorithmic content
 - iii. M-4-2-1
 - iv. Interactive notes
 - v. Discovery
 - vi. Interactive lecture with processing throughout
 - b. Students doing exactly before similar
 - c. Guided and supported practice
7. Cool down reflection, practice, activity ... easy and positive experience
8. Independent practice with dp, Dp and DP fully learning supported and process writing/representation component

Critical tool – Every student articulates every answer.

Additional Powerful Tools

1. Delayed homework practice until it will be done correctly
2. Delayed assessments
3. Assessment by objective
4. Parallel Assessments
5. Criteria for Credit
6. Corrective Loops with Instruction AND Practice Components

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