A Presentation about Presentations

Lessons from Cognitive Psychology
Presentations are best for providing information to a receptive audience with adequate prior knowledge.
Attention  Information Processing  Memory
Students can’t learn unless they are paying attention.
Multitasking is a myth.
Attention Rules:

✓ gain attention
✓ help focus attention
✓ don't compete with distractions
✓ don't overload the system
Attention → Information Processing → Memory
GBY
QDP
LZV
Information Processing Rules:

- explore prior knowledge of audience
- recognize that interpretations occur
- help students discover patterns and meaning
- present information in context
- actively involve students in processing info
Attention → Information Processing → Memory
7 +/- 2
Attention | Information Processing | Memory
Makes sense? Has meaning?

Emotions

Survival
Memory Rules:

✓ allow short term memory to work
✓ recognize there is no automatic memory
✓ provide assistance to long-term memory
  ✓ Make sense and meaning in an emotionally supportive environment
✓ memory aids when necessary
Attention  Information Processing  Memory
Power Corrupts
PowerPoint corrupts absolutely ... IF you let it
Assertion-Evidence Structure

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Each slide should contain an assertion, written at the top in a complete sentence.
Each slide should contain visual evidence to support the assertion.

Order of Analysis

- Orbiter assessment of ascent debris damage includes
  - Evaluation of potential for debris to damage tile and RCC
    - Program “Crater” is official evaluation tool
      - Available test data for SOFI on tile was reviewed
      - No SOFI on RCC test data available
    - Even for worst case, SIP and densified tile layer will remain when SOFI is impactor
  - Thermal analysis of areas with damaged tiles
    - Thermal analysis will predict potential tile erosion and temperatures on structure
  - Structural assessment based on thermal environment defined above
    - Basis is previous Micrometeoroid and Orbital Debris (M/OD) study performed in 1996
Assertion-evidence slides led to better comprehension and recall of more complex concepts.

42%  

When RF Waves Cease

When RF Waves Are Applied

Main Components of MRI
- Superconducting magnets
  - Magnetic fields in x, y, and z directions
  - Allow for 3-D images
- Radio frequency (RF) transceiver
  - Transmits and receives RF waves

Essays

When the RF wave ceases, the magnetic field forces atoms to realign and release energy

Applied RF waves add energy to hydrogen atoms, causing some to fall out of alignment with the magnetic field

The main components of an MRI machine are the magnets and the radio frequency (RF) transceiver

p < .001

[Garner and Alley, 2012]