

Multiple choice The good Variety of learning targets Minimize the BS response Does not assess writing abilities Guessing is more difficult Diagnostic abilities What's missing from this list?

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Multiple Choice

- The bad:
 - O Little self-expression
 - O Limited to trivia or factual knowledge*
 - O Punishes bright students
 - O Canonized knowledge
 - O Forces drill-and-practice

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Multiple choice Recommendations (stem)

- Write as direct questions
 - O (Haladyna & Downing, 1989a)
- Avoid incomplete sentences
- Keep it simple (non-technical)
- For definitions, place term in stem
- Drop the window dressing
- Do <u>not</u> use negatives
- Avoid examinee opinion
- Paraphrased (not from the textbook)
- Separate items

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Multiple choice Recommendations (leaves)

- 3-5 rule
- Homogenize
- Place repeated words/phrases in stem
- Consistent punctuation & grammar w/ stem
- Arrange in a list that is logical or meaningful
- Distinct leafs
- Avoid true/false leafs
- Avoid "none of the above/all of the above"
- Overly plausible distractors
- 'Joke' response

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Multiple choice examples

- Which of the following three-dimensional shapes is best suited to traversing a smooth surface in a linear fashion?
 - cube
 - pyramid
 - ruler
 - point
 - cylinder*

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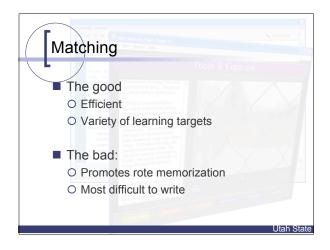
Multiple choice examples

- If you want students to perform a calculation in a test the best thing to use is:
 - A fixed-response item.
 - A multiple choice item.
 - A matching item.
 - A fill-in-the blank item.*

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Multiple choice examples Which of the following is the best fruit? Apple Orange Pumpkin Banana Kiwi* Squash

In column A are statements about our history, in column B Names places and dates, match the letter of the appropriate Name, place, or date with the appropriate line next to column A 1. First president of the United States 2. Discoverer of America 3. Year America was discovered 4. Beginning of the Revolutionary War 5. Present capital of the United States Utan State



Matching Recommendations

- Match with learning targets/objectives
- Match assessment plan
- Homogenous sets of premises/responses
- Clear directions
- Every response is a plausible option for every premise
- 5-10 rule
- No perfect matching (# responses > # premises)
- Each premise longer than each response
- Logically arranged responses
- Numbered premises/lettered responses

Matching examples

In column A are statements about our history, in column B Names places and dates, match the letter of the appropriate Name, place, or date with the appropriate line next to column A

- _ 1. First president of the
- United States 2. Discoverer of
- America
 3. Year America was discovered
- 4. Beginning of the Revolutionary War 5. Present capital of the United States
- A. Columbus
- B. George Washington
- C. Washington, D.C. D. 1492 E. 1776

Embedded items

- Goal is to check understanding
 - O Timing (formative)
- Do not grade
- Allow for multiple attempts
- Feedback
 - O Correct response (prompt to continue)
 - O Recursive corrective feedback (try again)
 - O Invalid response (re-prompt)

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What we did not cover

- Assessment blueprints and assessment plans
- Validity/reliability of items
 - Content validity
 - O Intra-item reliability
 - O Item analysis
- Other item types: Short answer, fill in the blank, essay, project-based.

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