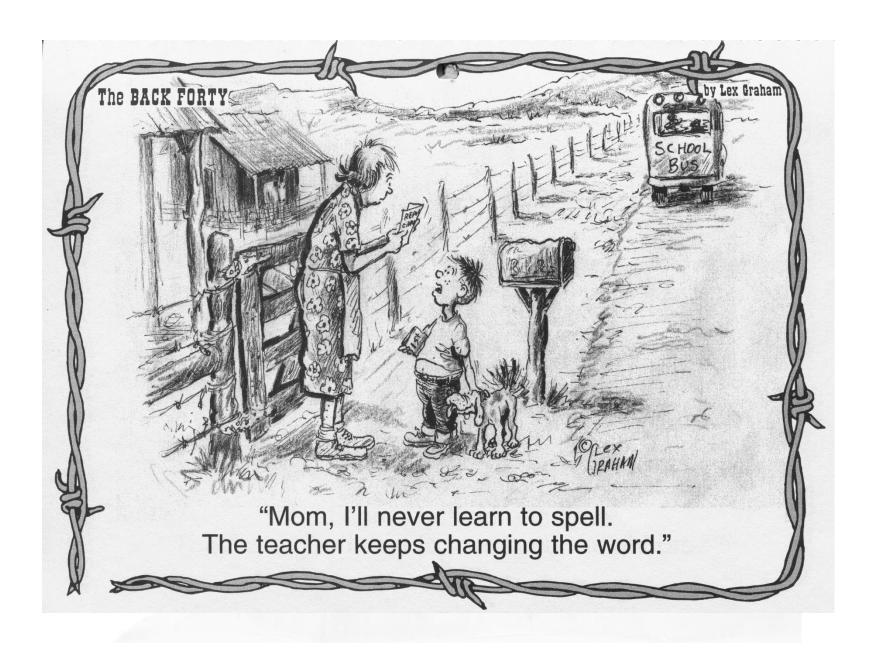
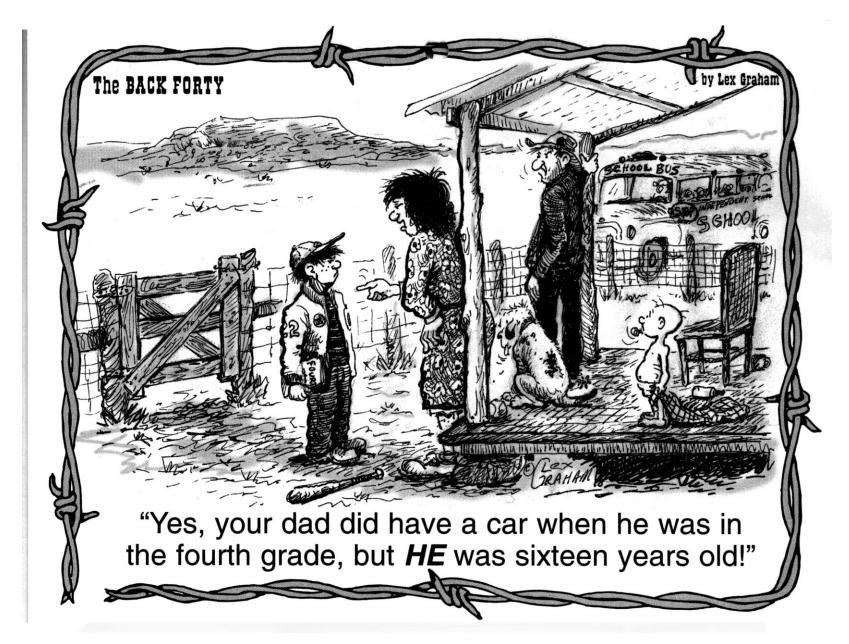
Effectiveness of a Post-exam as a learning aid

Lee G. Wood
Southern Utah University,
Cedar City, UT









 One of the challenges of teaching is to find effective techniques and practices

-Then improve upon them

• Students spend considerable time preparing for exams, but often fail to reflect on information, or discuss it afterwards

- This study was conducted to assess student opinions of the effectiveness of giving a post-exam as a learning aid
 - It was reviewed and approved by the SUU Institutional Review Board (IRB)



- In this instance, the post-exam was:
 - the same exam
 - -given the next class period

-taken in small groups

organized by the instructor



- 3 regular exams were scheduled throughout the semester
 - Exams were roughly 50 questions,
 consisting of true/false, multiple choice,
 and short answer
 - -Students had 50 minutes to take each exam



- Post-exams were given, unannounced, during the class period following the original exam
 - —After it had been graded, but not returned
 - -Post-exams were optional
 - A small amount of extra credit possible



- Students were sorted into groups based on performance
 - Each group: similar score distribution
 - Groups ranged from 3-5 students

-Group exams were not returned



- For variety, each post-exam was given in a different format
 - 1. Taken as a group
 - 2. Taken as a group, but groups were mixed up every 10 minutes
 - 3. A game show type format where groups compete against each other



- At the conclusion of each semester a short survey was available for voluntary completion
 - -The survey was issued at the end of five semesters (Fall 2012-14) in two different courses

A total of 106 students completed the survey



- Likert-type scale
- Survey questions, 3 areas:
 - 1. How do you like the concept of post-exams?
 - 2. Preferred style of post-exam

3. How much did you study?



	Questions:
1	I enjoy doing posttest reviews
2	Posttest reviews help me learn the material better
3	If given the choice I would not do a posttest review unless there is extra credit
4	If I knew there was going to be a posttest review for extra credit, I would have studied after the exam
5	Which of the posttest review formats was the most enjoyable?
6	Which of the posttest review formats best helped you better understand the material
7	How much time would you estimate you spent preparing before each exam?
8	How much time would you estimate you spent reviewing material after each exam?



 Over 90% of students agreed that the post-exams helped them learn the material better

 About 85% of students agreed that the post-exam was an enjoyable experience



 Only 21% of students said that the only reason they participated was the possibility of extra credit







Most enjoyable format:

-Game show: 51%

-Group: 39%

-Speed: 10%





Most beneficial format:

-Group: 52%

-Game show: 31%

-Speed: 17%







 How much time would you estimate you spent preparing before each exam?

a) Less than 2 hrs: 9.2%

b) 2-4 hrs: 50.8%

c) 4-6 hrs: 24.6%

d) 6-8 hrs: 13.8%

e) More than 8 hrs: 1.6%

 How much time would you estimate you spent reviewing material after each exam?

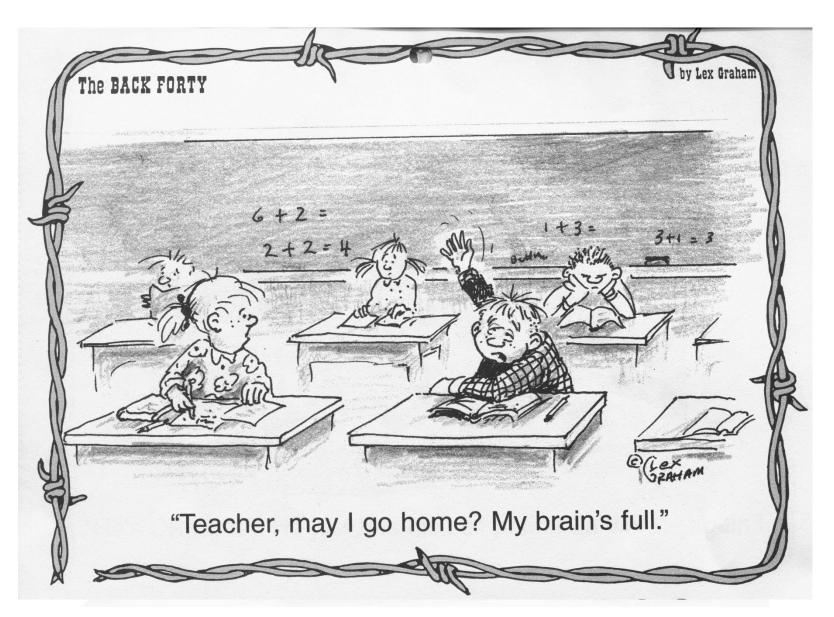
a) Not at all: 8.3%

b) Less than 1 hr: 66.7%

c) 1-2 hrs: 25.0%

d) More than 2 hrs: 0.0%





- Doing a post-exam requires a commitment of time and resources
 - -Valuable class time
 - -Extra exams to grade
 - –Considerable time, thought invested in preparation



 However, student responses indicate that providing an opportunity for students to take exams in groups can be a valuable teaching tool





- 100% of professors involved in this work agree that it is beneficial for the students and the class
 - Better understand material
 - -Teach each other

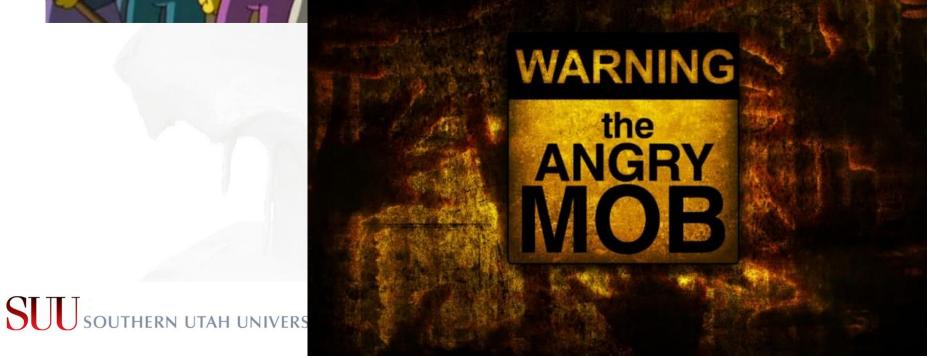
-Come together as group

common enemy









Potential for future:





Examples of comments:

- This is my favorite part of your classes
- I feel post-test reviews really help cement things I thought were right but was slightly unsure
- I like all 3 ways of doing the reviews



Thank you very much!!

