Team Based Learning While Testing: Using the Immediate Feedback Assessment Technique in a Cooperative Setting in Intermediate Microeconomics

## TEAM BASED LEARNING

"The advantages of TBL include improved attendance, increased pre-class preparation, better academic performance, and the development of interpersonal and team skills," [Michaelsen \& Sweet, (14-Jun-08) Higher Education Advocate] A great advantage of using IF-AT forms in group learning is that it quickly becomes apparent to participants that "loud and forceful" is not always "right"; each member is empowered by knowledge rather than personality, " [Taken from the Epstein Educational Enterprises website].

## IF-AT TECHNIQUE

## Epstein Educational Enterprises

http://www.epsteineducation.com/home/about/how.


- Prepare exam using their TestMaker software (free), corresponding to an IF-AT scratch off answer sheet.
A blank indicates an incorrect response. The * indicates the correct response.
Students earn partial credit for selecting the correct answer after the first attempt.
10 question IF-AT sheet $\$ 90$ for 500; 25 question If question IF-AT sheet $\$$


## METHODS

TWO-STAGE GROUP QUIZZES:
Stage 1: Each student takes an individual multiple choice quiz.
Each question worth 4 points
Stage 2: Groups use IF-AT to take the same quiz.
4 points $1^{\text {st }}$ attempt, 2 points $2^{\text {nd }}$ attempt; 1 point $3^{\text {rd }}$ attempt
Student quiz score: $2 / 3$ Stage $1+1 / 3$ Stage 2
GROUP FORMATION:
Random, 3-4 students
STUDY DESIGN:
2 "traditional" quizzes; 2 two-stage group quizzes
Future research: impact of quiz type on final exam performance; compare with results from management course (Ann Rensel, Ph.D.)


QUESTION SUMMARY


ENGAGEMENT!


