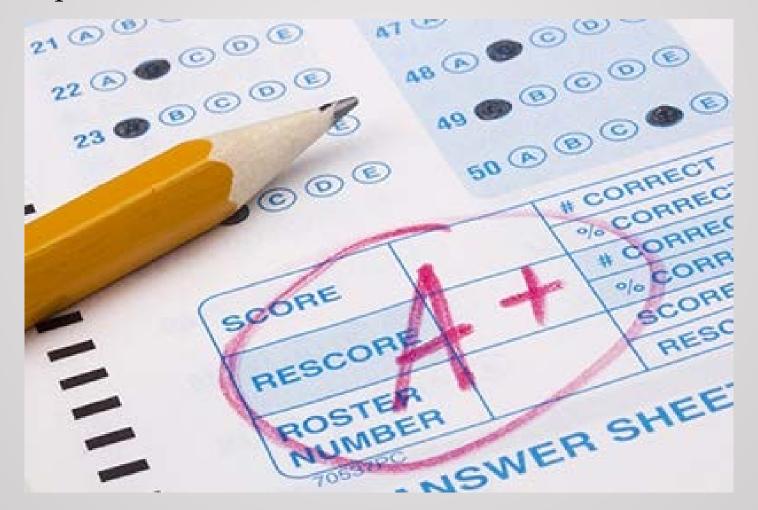


Alison C. Koenka, Ph.D. Division 15, APA August 11, 2018

• Assessment is prevalent and salient

Assessment is prevalent and salient



Assessment is prevalent and salient

their lives together. The society should allow them to enter into a marriage which not only includes sharing of income and property, but also inheritance and tax. Great addition! Slephen Macado, a Theorist at Princeton ijnst cancer out This year with a book in which he argues against your painting, but that position Goms) is never thelers hard to refer to. Perhaps are could argue (are) that if a multiple- purson nearitye harmed some of the individuals in it (one or more "wives" for

- Assessment is prevalent and salient
- Resulting importance of understanding performance feedback and its influence on academic motivation

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performance-specific evaluative information conveyed to students on an assessment in the form of a grade, comment, or combination of the two

- Assessment is prevalent and salient
- Resulting importance of understanding performance feedback and its influence on academic motivation

"the process whereby [academic] goal-directed activity is instigated and sustained"

prior work

- Meta-analytic investigation
 - Grades versus no feedback
 - Grades versus comments

prior work

- Meta-analytic investigation
 - Grades versus no feedback
 - Grades versus comments

Comments alone: d = 1.14*

Grades accompanying comments: d = -.04 (not significant)

Moderating effect of feedback stage

- Moderating effect of feedback stage
 - 1. Random assignment
 - 2. Feedback receipt
 - 3. Motivation measurement

Moderating effect of feedback stage

- Confounds form with valence

Moderating effect of feedback stage

- Confounds form with valence





Moderating effect of feedback stage

1. Random assignment

1. Random assignment

2. Feedback receipt

2. Feedback anticipation

3. Motivation measurement

3. Motivation measurement

- Moderating effect of feedback stage
 - Confounds form with valence
 - Capturing fluctuations in motivation during a single assessment

- Moderating effect of feedback stage
- Impact of performance feedback on high-stakes, summative assessments
- More nuanced investigation of pairing grades and comments
- Impact on self-efficacy

overarching objective

What is the motivational impact of grades, written comments, grades and comments, or no feedback on a high-stakes math or science assessment?

theoretical framework

- Social cognitive theory self-efficacy
- Achievement goal theory goal orientations
- Self-determination theory intrinsic motivation

method

• 161 students at an all-female, private secondary school

method

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- 7th, 8th, or 9th grade

- 13 math or science classes

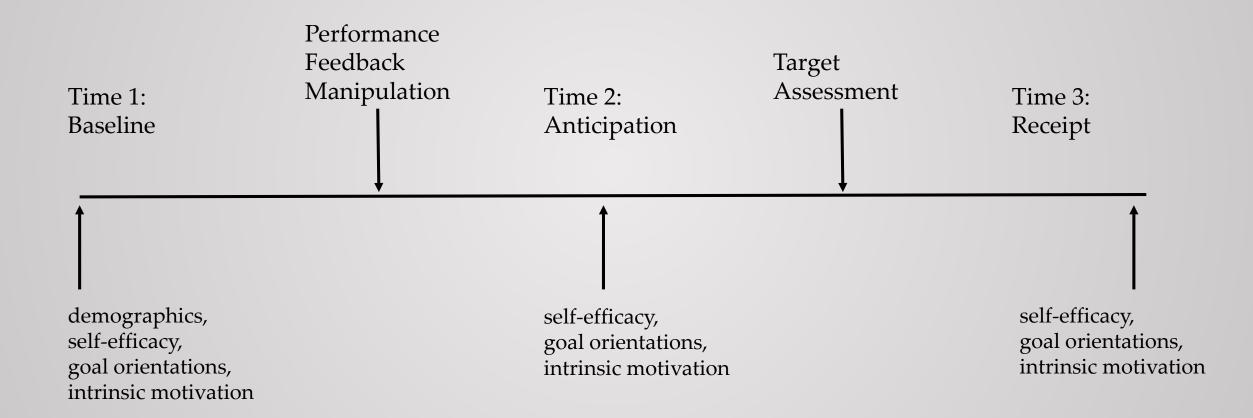
design and conditions

- Cluster-randomized experimental design
- Four experimental conditions
 - 1. Grades
 - 2. Comments
 - 3. Grades and comments
 - 4. No feedback

design and conditions

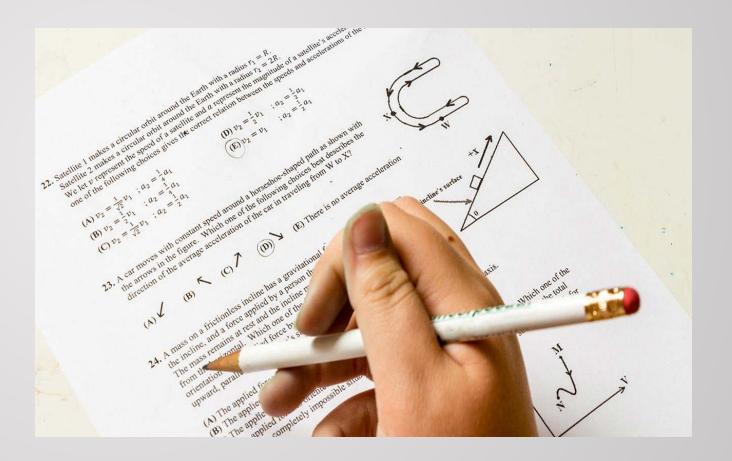
- Cluster-randomized experimental design
- Four experimental conditions
 - Teachers conveyed information
 - Students believed that assessment would count towards grade like a typical classroom assessment would

procedure



target assessment

- Teacher-designed
- High in stakes



nature of grades and comments

- Criterion-referenced grades
- Task-focused comments

Hypothetical example: "You have clearly demonstrated your understanding of calculating the volume of a cylinder"

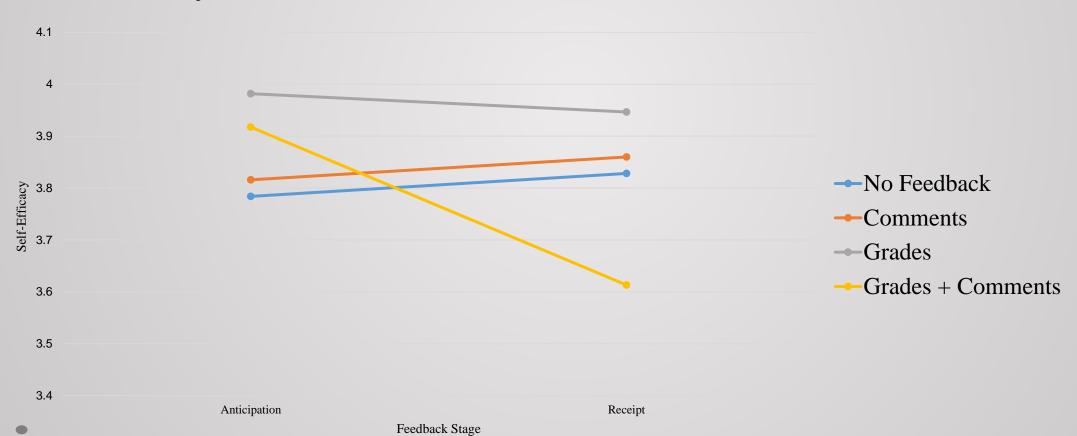
nature of grades and comments

- Criterion-referenced grades
- Task-focused comments
- Fidelity implementation

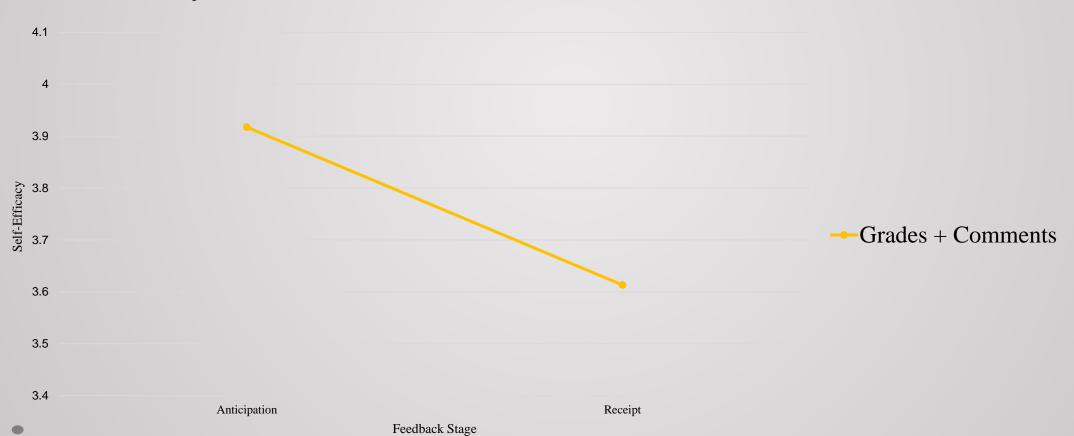
data analytic approach

- Multilevel modeling
- Calibration and baseline motivation

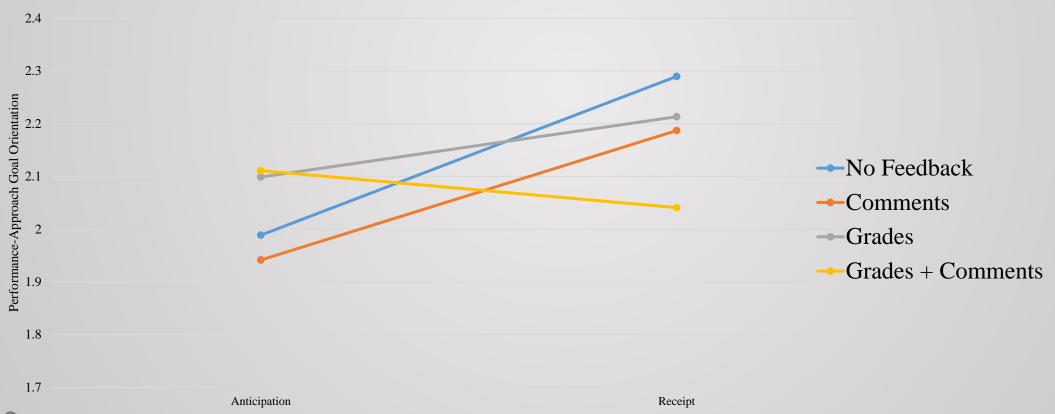
• self-efficacy



• self-efficacy

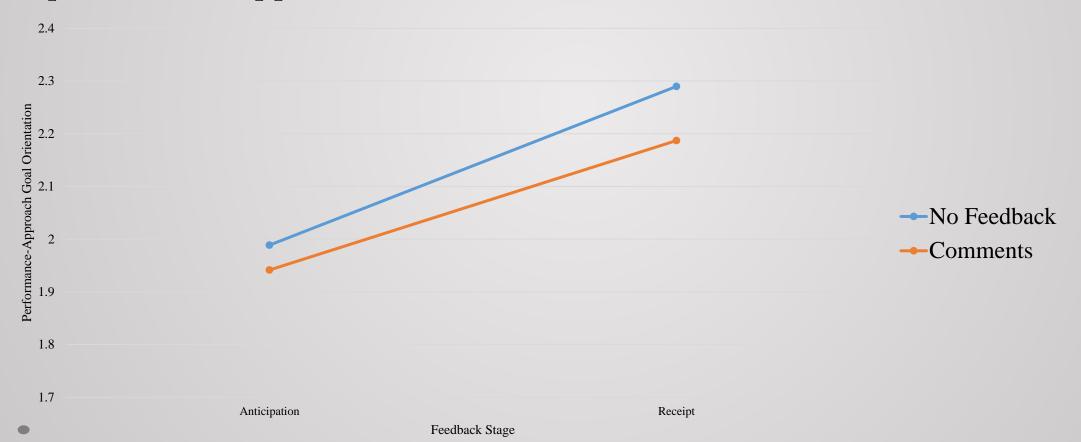


• performance-approach

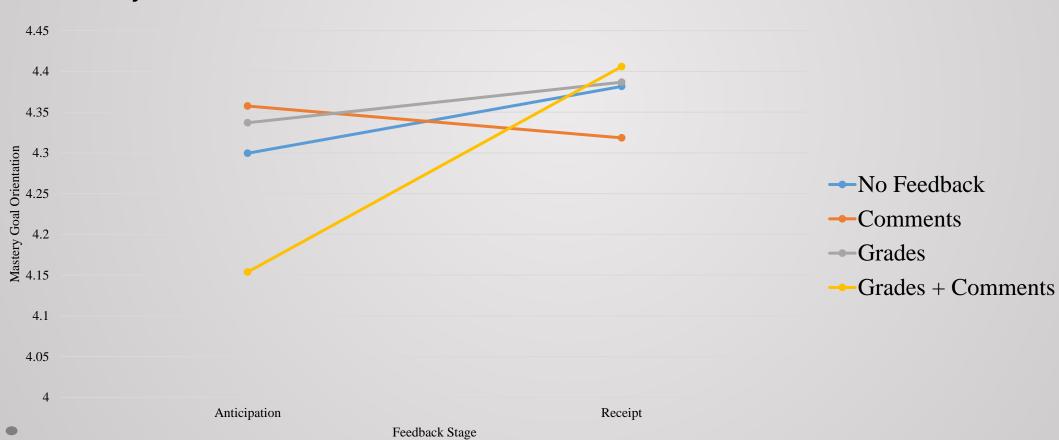


Feedback Stage

• performance-approach



mastery

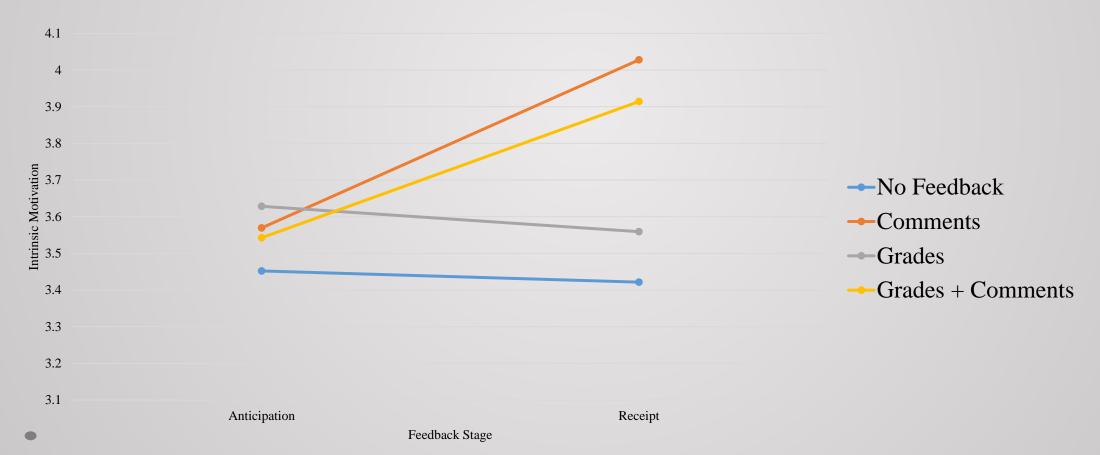


mastery

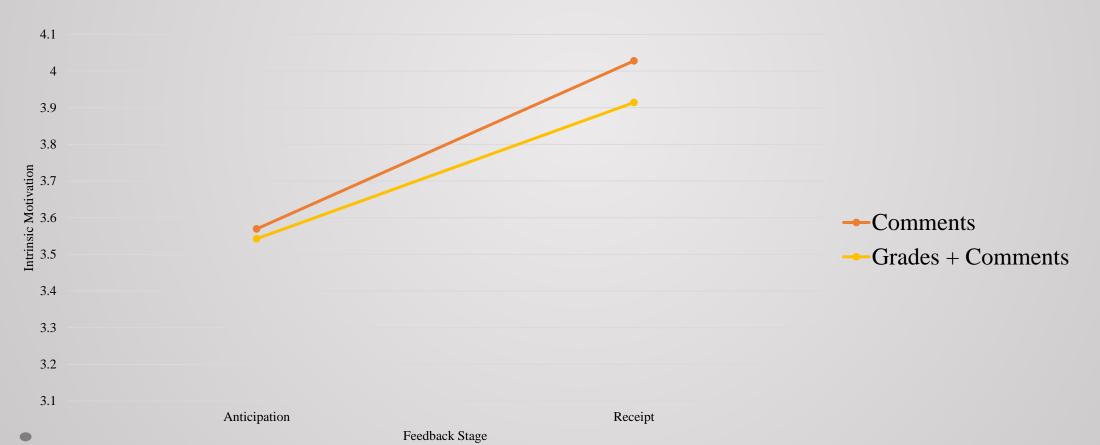


Feedback Stage

• intrinsic motivation



• intrinsic motivation



• Motivational fluctuation within single assessment

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- Grades and comments led to most favorable motivation outcomes

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 - Providing written comments is worth the extra time

- Motivational fluctuation within single assessment
- Grades and comments led to most favorable motivation outcomes
 - Providing written comments is worth the extra time
 - Essential to consider the broader assessment context

- Motivational fluctuation within single assessment
- Grades and comments led to most favorable motivation outcomes
- Grades and comments also led to a decline in self-efficacy

- Motivational fluctuation within single assessment
- Grades and comments led to most favorable motivation outcomes
- Grades and comments also led to a decline in self-efficacy
 - Such a thing as too much feedback?

- Motivational fluctuation within single assessment
- Grades and comments led to most favorable motivation outcomes
- Grades and comments also led to a decline in self-efficacy
 - Such a thing as too much feedback?
 - More accurate perceptions of current understanding?



• All-female sample



- All-female sample
- Academically selective school
- Failed to disentangle valence from feedback form

- All-female sample
- Academically selective school
- Failed to disentangle valence from feedback form

feedback valence

performance feedback — motivation



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