Predictors for Students' Understanding of Writing: Instructor Actions and Student Mindset

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Demonstrate Understanding

- Exams
- Summarize concepts
- Connect ideas

Personal Growth

- Write to learn
- Improve communication skills
- Genre-specific practice (business reports, lab reports, academic discourse)

Audience-Driven Purpose

- Argue / Persuade
- Inform of research findings
- Inform decisions

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The Instructor

- Ugh.. I'm not doing this for me.
- Appropriate for demonstrating understanding

Experts in Field or Similar

- Experts: Academic discourse
- Fellow students: Inform of research findings
- People with similar interests

Authentic Audience

- Tied to purpose: Eg persuade referendum voters
- Fictional & authentic tied to topic:
 Eg board of directors, K-12 teachers, mental health care providers

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Audiences (Previous Slide)

- Instructor
 - 2 Experts in Field
- 4 Authentic

Our Purpose #1: Measure College Student Experiences

- Place and purpose for all the above
- Measure students' perceptions
- Measure coverage of all the above

- Student mindset
- Instructor actions
- Student background & demographics
- Academic differences: field-of-study, year-in-school

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Think about the last 3+ page writing assignment you completed. In one sentence **describe the purpose** for the writing

Categorized Responses Into Ordered Levels

- None / unclear
- 2 Topic or assignment description, instructor-centered
- Writer-centered (personal growth, practice)
- 4 Reader-centered

- 4 Highly Confident
- Somewhat Confident

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- Not at all Confident

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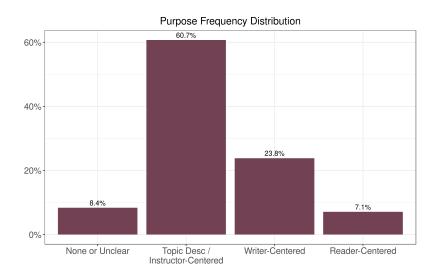
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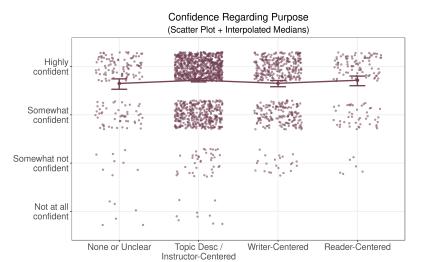
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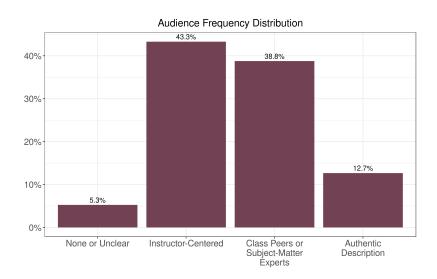
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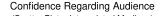
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Mindset 10/22

What is *Mindset*?

An individual's beliefs on learning and intelligence.

Fixed Mindset

- Abilities come naturally to some, not to others
- Prevalent in both low performing and high performing students
- Simply not true.
- Sets people up for failure.

Growth Mindset

- Intelligence and ability are not predetermined
- Growth in intelligence and ability take work and dedication
- Conducive to learning and success.



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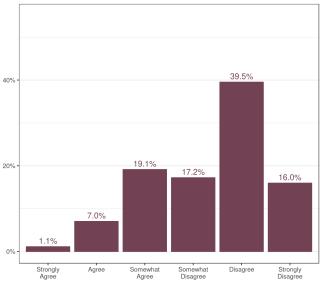


Based on Carolyn Dweck (2006)

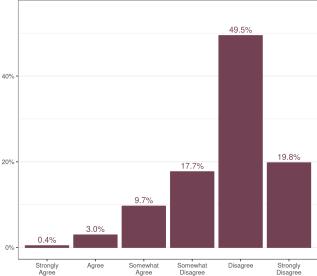
https://mindsetonline.com/testyourmindset

Please rate your level of agreement or disagreement with each of the following statements. Strongly Somewhat Somewhat Strongly Disagree Disagree Disagree Agree Agree Agree You can learn new things, but you can't really change how smart you are. You have a certain amount of math ability and can't do much to change it. You have a certain amount of writing ability, and you can't really do much to change it.

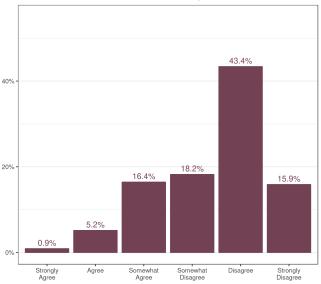




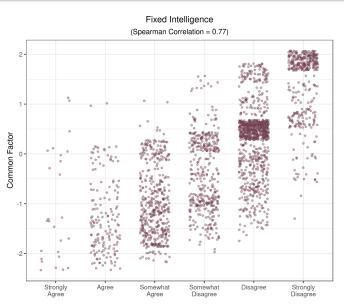




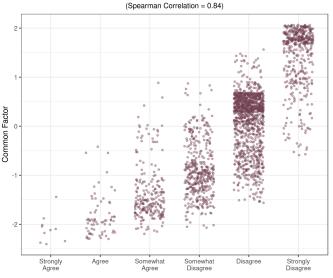


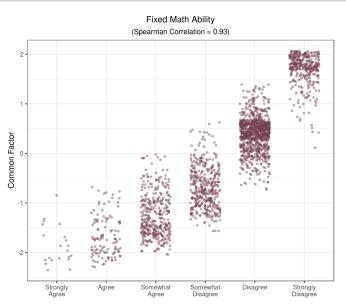


- Three ordinal measures of mindset
- Factor analysis
- Spearman correlation matrix (ranks)









- Fixed: Belief that intelligence is a fixed trait
- Growth: Intelligence is developed with work and dedication

Instructor Actions

- Encourage students to use writing center
- Give feedback prior to final draft

Student Demographics / Background

Gender

Parents' Education

Race

High school performance: ACT Score

Academic Characteristics

Credits accumulated

University identifier

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Variable	Coefficient	P-value
Mindset Common Factor	0.093	0.039**
Instructor Feedback	0.345	0.001***
Writing Center Encouragement	0.215	0.098*

Demographics

Variable	Coefficient	P-value
Female	0.121	0.279
Race: Non-white	-0.420	0.030**
Parent w/ no college education	-0.160	0.302
ACT Score	0.076	0.123

Variable	Coefficient	P-value
Credits Accumulated	-0.200	0.000***
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Student Experience

- Most report lower-order writing experiences for both purpose and audience
- Does not progress with progression toward degree
- Business and science fields Higher order for audience

Mindset and Instructor Influences

We can influence students perceptions / experience

- Encourage a growth mindset
 Ideas from Stanford researchers:
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Conclusions 22/22

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