Changes You've Been Asking for: The RLA Test Screen & Score Reports

Marty Kehe and Ann Evers, August 28, 2018



Agenda

RLA Extended Response with Scrollable passages





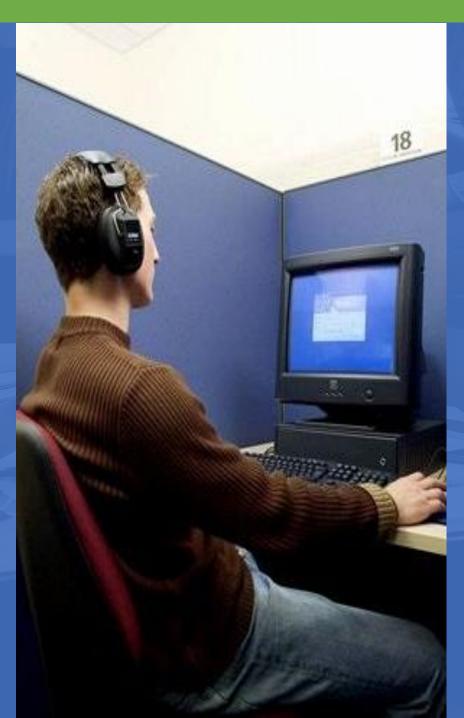




Extended Response

Research findings and potential test improvements





Cognitive Labs

Why did we investigate the Extended Response task?

- Listened to educators that students weren't excelling since launch
- Investigated potential causes, including misunderstanding of
 - Task itself
 - Scoring criteria
 - Meaning of "analysis" and "evaluation"

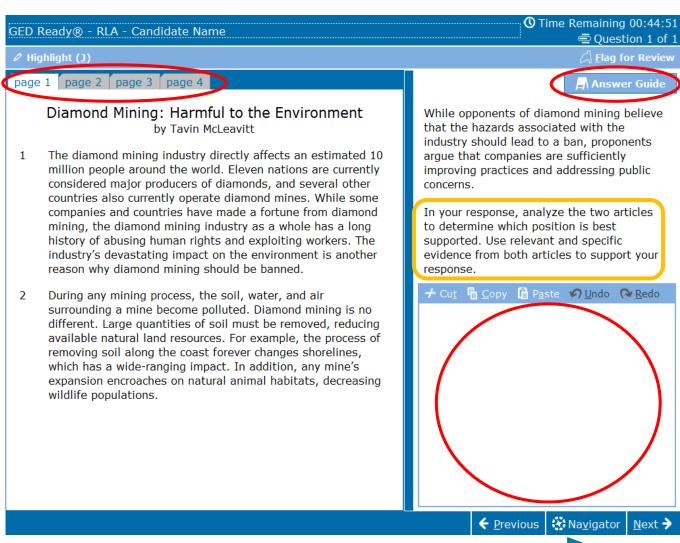
What did we decide to do?

- Designed a series of studies with cognitive labs
 - Collected data in November 2015
- Invited students from multiple locations in several categories to participate
 - took RLA and passed
 - took RLA and failed
 - had not tested yet



Pilot Study Research Questions

- Do test takers
 - Understand what they need to do to complete the task?
 - Comfortably interact with the computer?
 - Use the space in the response box?
 - Use the onscreen Answer Guidelines?
 - Navigate the tabs successfully?
 - Prepare for the test?
 - Have a MYGED[®] account?
 - Use the resources on GED.com?





Pilot Study Findings

Test-takers generally

- Do understand
 - Not to write their opinion and
 - The need to use evidence from the passages
- Don't understand
 - What the task wants them to do ("to analyze" means "to read")
 - That they need to explain WHY the evidence they choose was the best to support the stronger argument
- Are comfortable with using computers
 - But are subtly influenced by the screen format to write responses that are too short
- <u>Lack</u> awareness of test preparation
 - Don't make use of Tutorial, Answer Guidelines, Noteboards



New Study Research Questions and Materials

Do test takers

- Understand what they need to do to complete the task?
- Comfortably interact with the computer interface?
- Prepare for the test?

- Created Instructional presentation
 - https://youtu.be/c8Gg-yknu9Y
- Reformatted the Extended Response Prompt and box
- Invited ABE students vs. Non-ABE students
- Structured interview questions to better understand our test takers



Findings



Avid Mobile users



Positive Feedback on Short Instructional Video



Looking for online tools (Study Guide)



Guided Scaffolding (Score Report Personalized Study Guide)



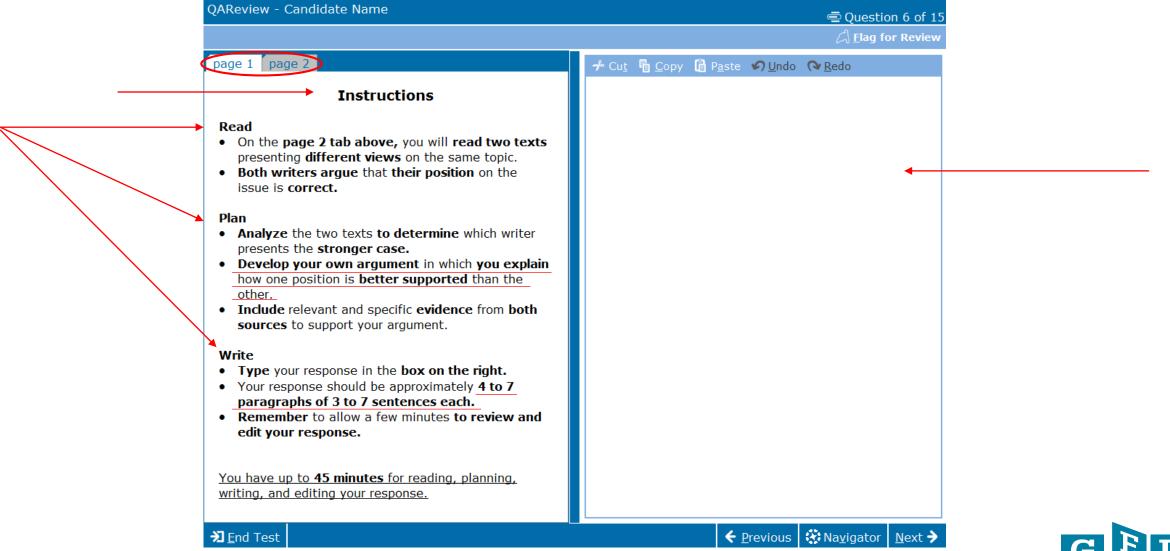
Positive Outcomes to Resized Box



Clearly Understood Revised Instructions



January 2019 release in English and Spanish





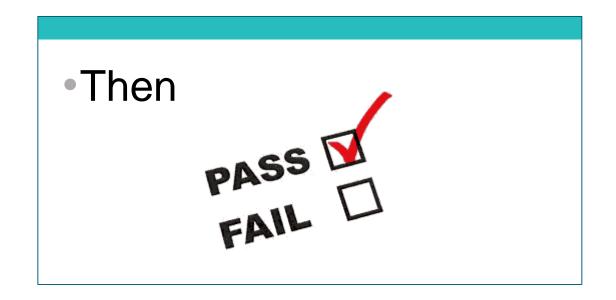
Score Report

Multi-phased usability and human-centered design studies





Why are we investigating our Score Report?





How do students and teachers **use** and **understand** the score report?



Study Overview

Phase 1 – To Understand

- Baseline Usability Study
 - Students
- Contextual Inquiry
 - Educators
 - 1) Research objectives and methodology
 - 2) Participants
 - 3) Data Collection
 - 4) Combined findings for both studies

Phase 2 – To Ideate & Iterate

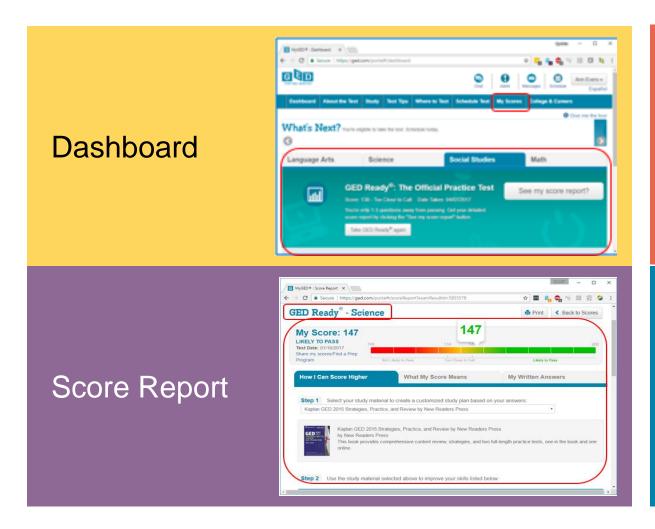


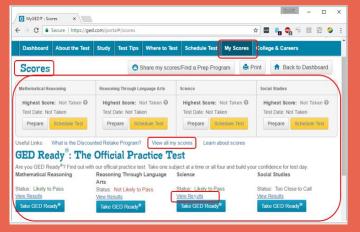


- Students and Educators
- Usability Study
 - Students and Educators

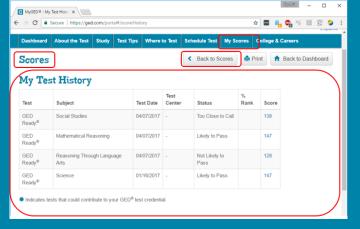


Scope of Study





My Scores/ Scores

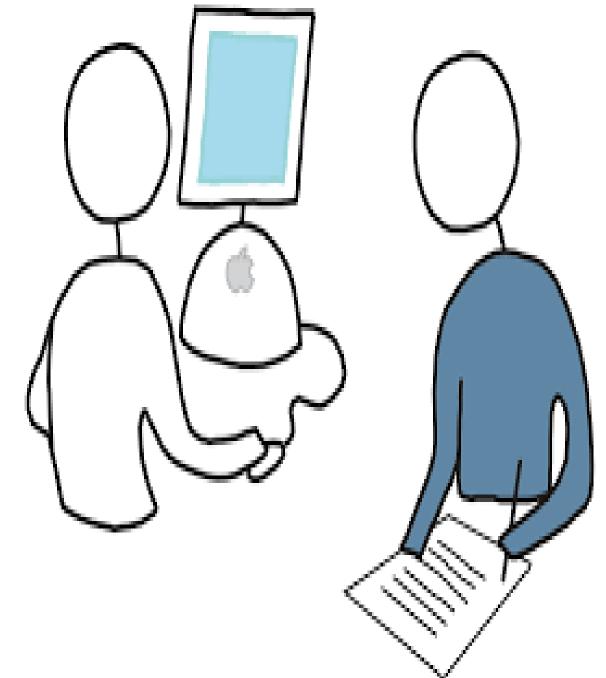


Scores/ My Test History



Usability Study

Students





Why is usability important?

self-fulfilment
self-fulfilment
self-fulfilment
satisfaction
satisfaction
satisfaction
satisfaction
satisfaction
satisfaction
satisfaction
self-fulfilment
self-





Research Objectives

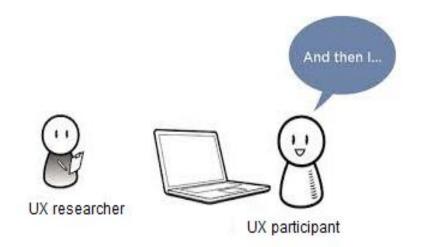
- Evaluate the usability of the current score report, identify areas of confusion and recommend improvements.
 - Can students find it?
 - o Do they understand it?
 - o Is it easy to use?
 - Can they effectively use it as a tool to help them improve their score?
 - Which individual elements do they notice?
 - Which elements are most and least helpful?





Our Student Participants

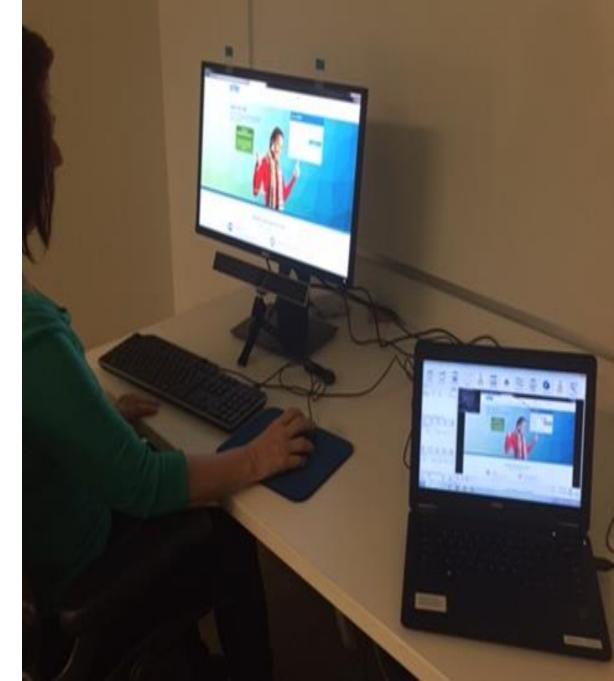
- Mix of students at various stages of their GED[®] journeys
 - No GED Ready® tests taken
 - 1+ GED Ready® tests taken
- Split between mobile and desktop
- Demographic diversity
- Ages from 21-41
- Mix of self-study and ABE students
- DC office





Study set up with GAZEPOINT Eye tracking on desktop

- Captured gaze patterns through hardware and software
- Researcher's computer showed, in real time, both the participant's display and participant's gaze plots.
- Eye gaze was tracked during the session to enhance prompting.

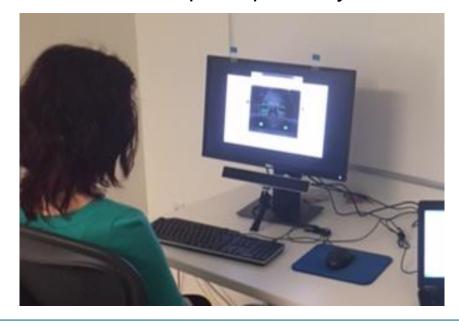


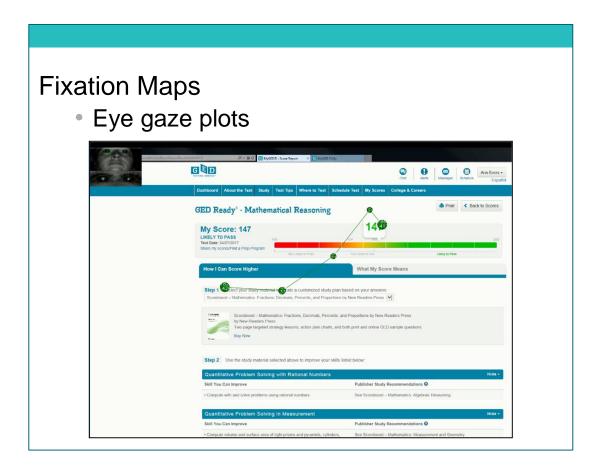


Calibration of Eye Tracking on Desktop

Calibration

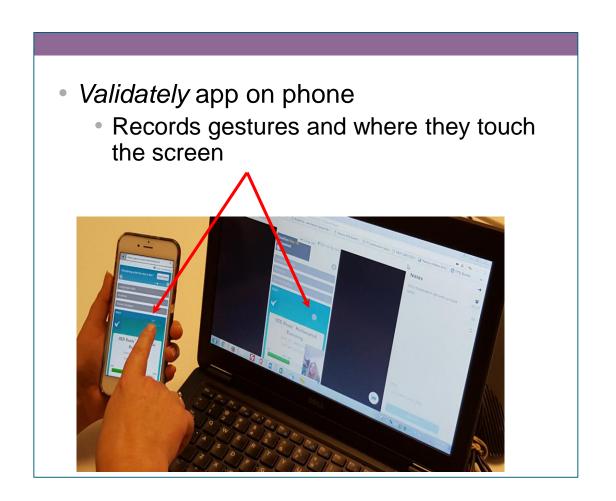
First calibrate participant's eyes.







Screencasting on Mobile Remotely



https://ged.com/portal#/scoreReport?examResultId What My Score Means Hide - Records their voice My Performance and facial expressions Scoring into the Red Zone on the GED Ready® practice test means that you are not likely to pass the GED® test without continuing to work on your Reasoning Through Language Arts (RLA) skills. Although your performance on this content area of the GED Ready® practice test indicates your score is in a range where test-takers rarely pass this content area of the GED® test, your result only represents an indication of your preparedness and does not guarantee a negative result on the actual GED® test. Most test-takers that score in this range ultimately do not pass the GED® test in this content area on their first attempt. Most test-takers that score in this range need more preparation in order to pass the GED® test for this content area. Test-takers who score into this zone may be able to comprehend and analyze simple passages similar to that of L.M. Montgomery's Anne of Green Gables, Joy Hakim's A History of US, and Colin A. Ronan's Telescopes. and typically show that they can perform skills in a limited and/or inconsistent Ways of expressing mean

· Put events from a written s



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Contextual Inquiry

Educators







"Contextual inquiry occurs in context. ... It involves observing people performing their tasks and having them talk about what they are doing while they are doing it."



More about contextual inquiry



Research Objectives

- Understand how and when educators use score related information, and evaluate the usability of the current score report for these uses.
 - What are their typical patterns of use?
 - How do they use score information individually and with students?
 - Which individual elements are most and least useful?
 - Is the content meaningful?
 - Can they effectively use it as a tool to help them guide their students?
 - What pain points do they encounter?



Our Educator Participants

- Educators in a variety of settings
 - Rural with a single, part-time tutor
 - Urban center with a large, multi-role staff
- Individual sessions held remotely
- Geographically dispersed

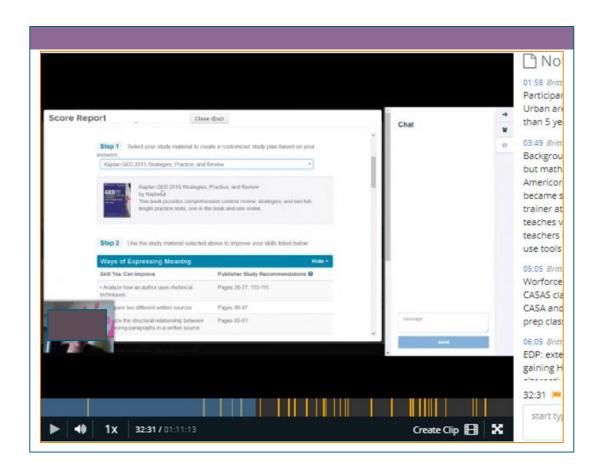






Screencasting on Desktop Remotely

- Validately app on desktop
 - Captured participant's face, voice and computer screen on desktop
 - Demonstrated using: GED.com, GED Manager and personal spreadsheets related to students' GED test scores





What did we learn?

Students and Educators





Usability and Content Issues for Educators and Students

- Usability problems
 - Students trouble recalling page locations
 - Educators felt so frustrated they chose to limit their use of many score report elements
- Content improvements needed
 - Revise language to make easier to understand
 - Skills/indicators in How to Score Higher
 - What my Score Means
 - Reformat to highlight features
 - Directly link to the Scoring Tool in the Extended Response tab





Functionality

Educators

- Value additional functionality
 - Sorting the study plan by page numbers in the book
 - Being able to compare the performance of groups of students
- Often print the study plan
 - Hand-written notes in the margin and keep as a record.
 - Give copy and use it as an assignment for 2-3 weeks.

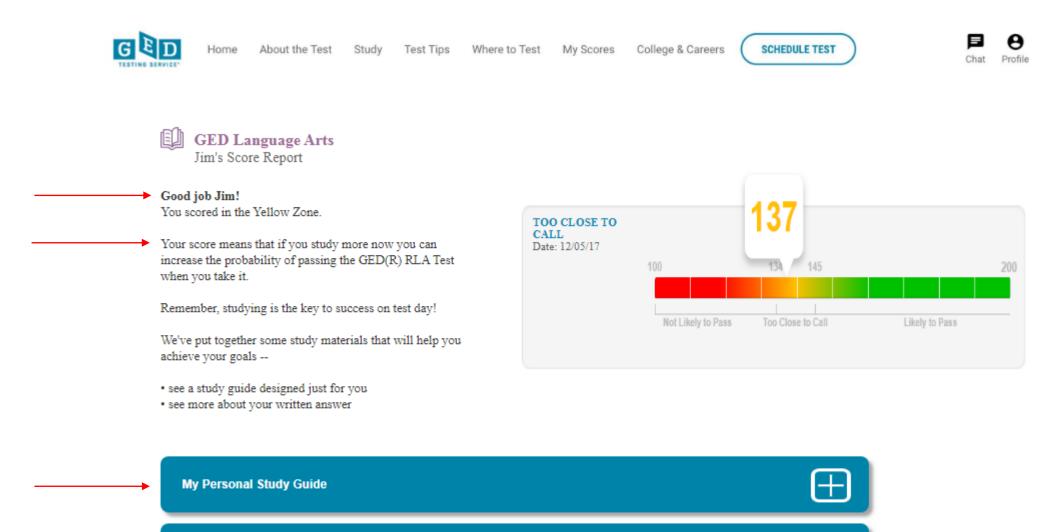
Students

- Find receiving a score report an emotional experience
 - Opportunity: Offer encouragement and support to aid student persistence
 - Opportunity: Mention College Ready and College Ready + Credit



GED Ready® RLA Score Report Prototype

My Extended Response



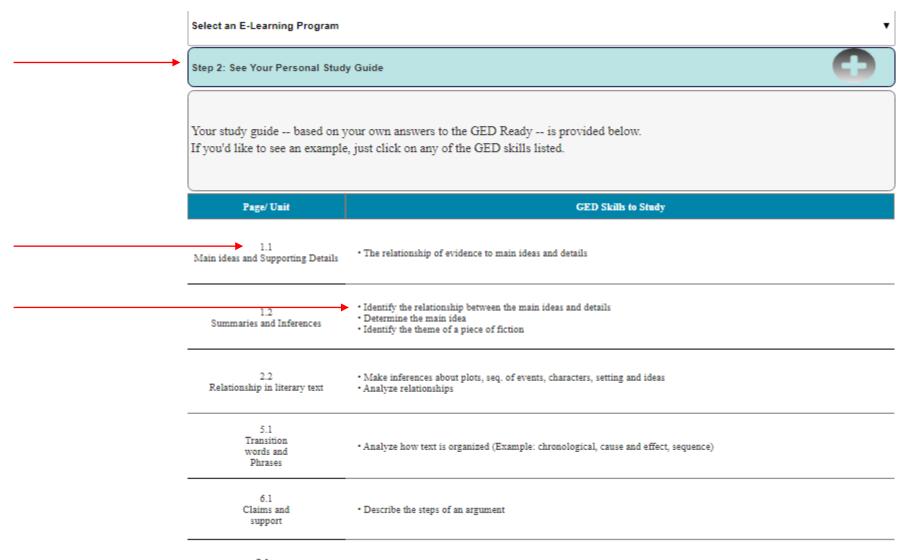


Personal Study Guide Prototype

We've put together some study materials that will help you achieve your goals --· see a study guide designed just for you · see more about your written answer **My Personal Study Guide** Want to get a higher score? Get your personalized study guide by clicking on a book or e-learning program below. Then, see what you need to study. Step 1: Select Your Study Material Select a Book Select an E-Learning Program Step 2: See Your Personal Study Guide My Extended Response

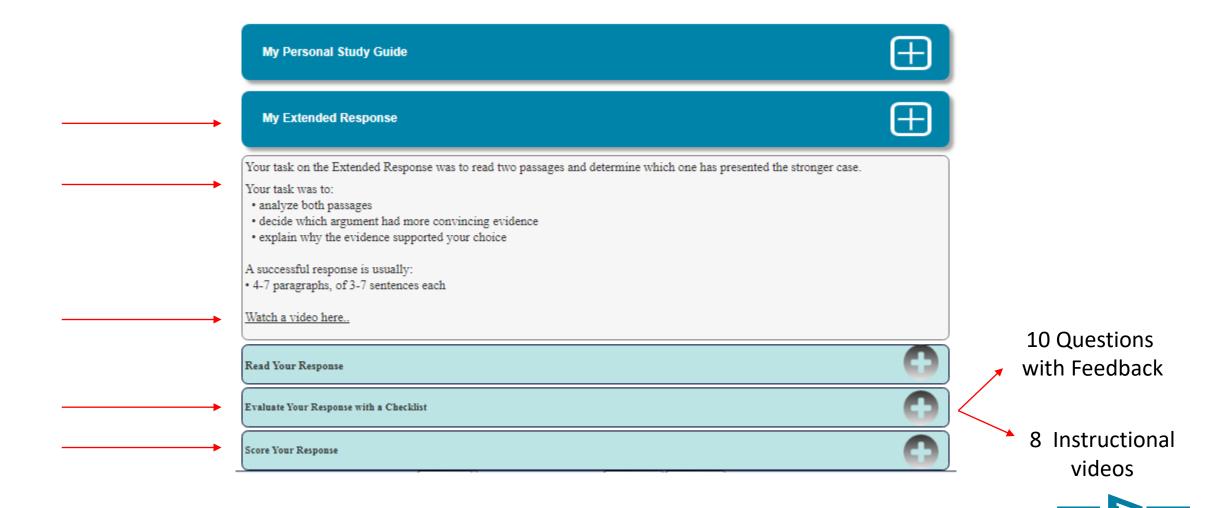


Personal Study Guide Prototype





My Extended Response Prototype







Thank you!

