

Overview of Peer Review Engagement:

Group One: Peer Review Helps Resolve Uncertainty: Revised Claim

Student	Draft One	Praise & Stylistic	Praise & Solution	Counterargument	Vague Criticism	Revision
Pothos	Struggled with conceptual uncertainty; misinterpreted the rate constants from the browning and flavor loss tables	Increased confidence because PR agreed with them; mentioned wanting to improve response	Increase confidence because PR agreed with them; mentioned wanting to improve response	Decreased confidence because agreed with initial conceptual uncertainty	Maintained confidence; felt the PR was too vague to act on	Changed their temperature to resolve initial conceptual uncertainty. Relied on Praise & Solution and Counterargument PRs to revise response.
Bluebell	Struggled with conceptual uncertainty; misread moisture content figure	Remained unconfident; agreed with PR that they needed to improve response	Remained unconfident; agreed with student's initial conceptual uncertainty	Decreased confidence because agreed with initial conceptual uncertainty	Decreased confidence because felt they needed to improve their explanation more	Changed their temperature & thickness to resolve initial conceptual uncertainty. Relied on all PR's to revise response.
Ivy	Struggled with epistemic uncertainty; unsure if temperature choice was best for onions	Increased confidence because PR agreed with them; mentioned wanting to improve response	Increased confidence because PR agreed with them; mentioned wanting to improve response	Decreased confidence because agreed with initial epistemic uncertainty	Decrease in confidence because agreed with initial epistemic uncertainty	Changed their temperature to resolve their epistemic uncertainty. Relied on all PR's to revise response.
Philodendron	Struggled with epistemic uncertainty; noticed the data conflicted and was unsure how to manage that	Maintained low confidence because the PR did not help them resolve their uncertainty	Maintained low confidence because the PR did not help them resolve their uncertainty	Decreased confidence because did not help them resolve initial epistemic uncertainty	Maintained low confidence because the PR did not help them resolve their uncertainty	Changed their temperature and thickness to better manage their epistemic uncertainty. All PR interactions pushed Philodendron to revise argument.
Daisy	Struggled with epistemic uncertainty; noticed data was conflicting and was unsure how to manage that	Increased confidence because the PR agreed with their initial selection	Slight decrease in confidence because the PR had pointed out issues with response; still felt confident in initial claim	Decreased confidence by causing student to reflect on initial uncertainty management strategy	Maintained confidence; felt the PR was too vague to act on	Changed temperature to better manage the conflicting data in their response; Relied on Praise/Stylistic, Praise/Solution, and Counterargument PR to improve response.
Rose	Struggled with epistemic uncertainty; unsure what factors, if	Increased confidence because PR agreed with them; mentioned still	Felt less confident because the PR told them they needed to	Decreased confidence by causing student to	Maintained confidence; felt the PR was too	Added more reasoning to second draft that added more justification to

	any should be prioritized in their response	feeling uncertain about draft one	add more explanation to their response	reflect on initial epistemic uncertainty	vague to act on	uncertainty management strategy from draft one
Lilly	Struggled with conceptual uncertainty; worried about interpretation of rate constants	Increased confidence because PR agreed with them; mentioned still feeling uncertain about draft one	Increased confidence because PR agreed with them; mentioned still feeling uncertain about draft one	Decreased confidence because agreed with initial conceptual uncertainty	Maintained confidence; felt each PR gave something different to consider	Added more explanation about their initial interpretation of the rate constants to improve response

Group Two: Peer Review Can Provide Feedback for Improvement

Student	Draft One	Praise & Stylistic	Praise & Solution	Counterargument	Vague Criticism	Revision
Tulip	Utilized 2 out of 3/middle ground reasoning; acknowledged they could add more evidence to argument	Still confident because the PR agreed with them; agreed with suggestion from the PR	Slightly less confident because felt their response needed improvement; agreed with PR, referenced initial areas for improvement	Slightly less confident because the PR disagreed with their initial draft; felt PR just prioritized something different	Maintained slightly lower confidence; referenced initial areas for improvement	Added more evidence and reasoning to address suggestions from each peer review
Azalea	Utilized prioritized moisture content/middle ground reasoning; felt good about initial draft	Still confident because the PR agreed with them	Slightly less confident because felt their response needed improvement; agreed with PR	Slightly less confident because the PR disagreed with their initial draft; felt PR just prioritized something different	Maintained slightly lower confidence; felt the PR was too vague to act on	Added more evidence and reasoning to address suggestions from praise/solution and counterargument PR.
Orchid	Utilized prioritized moisture content/middle ground reasoning; felt good about initial draft	Still confident because the PR agreed with them; agreed with suggestion from the PR	Slightly less confident because felt their response needed improvement; agreed with PR	Slightly less confident because the PR disagreed with their initial draft; felt PR just prioritized something different	Maintained slightly lower confidence; felt the PR was too vague to act on	Added more evidence and reasoning to address suggestions from praise/stylistic, praise/solution, and counterargument PR
Carnation	Misinterpreted moisture content graph; felt confident in initial draft	Still confident because the PR agreed with them; agreed with suggestion from the PR	Slightly less confident because felt their response needed improvement; agreed with PR	Slightly less confident because the PR helped them to identify their initial misinterpretation	Slightly less confident because felt their response needed improvement; agreed with PR	Addressed original misinterpretation in response, relied on all PR to improve their response
Laceleaf	Felt confident with initial draft; utilized variance reasoning	Maintained high confidence; agreed with PR that they could improve their response	Maintained high confidence; agreed with PR that they could improve their response	Decreased in confidence; countered the PR using variance reasoning	Maintained confidence; felt the PR was too vague to act on	Included more evidence and reasoning to better explain initial variance reasoning; relied on praise/solution and counterargument PR to revise argument

Fern	Felt confident with initial draft; utilized variance reasoning	Maintained high confidence; didn't think professionalism was important to warrant a revision	Slight decrease in confidence; agreed with PR that they could improve their response	Maintained confidence; countered the PR using variance reasoning	Maintained confidence; felt the PR was too vague to act on	Included more reasoning in revision that explained why they prioritized the MC more. Relied on praise/solution and counterargument PR to revise argument.
Lavender	Felt confident with initial draft; utilized variance reasoning	Maintained high confidence; agreed with PR that they could improve their response	Slight decrease in confidence; agreed with PR that they could improve their response	Slight decrease in confidence; countered the PR using variance reasoning	Maintained confidence; felt the PR was too vague to act on	Added more evidence and reasoning to response. Relied on praise/stylistic, praise/solution, and counterargument PR to revise argument
Aster	Felt confident with initial draft; utilized 2 out of 3/Middle ground reasoning	Maintained high confidence because the PR agreed with them	Maintained high confidence; agreed with PR that they could improve their response	Maintained high confidence; countered the PR using variance reasoning	Maintained confidence; felt the PR was too vague to act on	Added more evidence and variance reasoning to response. Relied on praise/stylistic, praise/solution, and counterargument PR to revise argument.
Jasmine	Felt confident with initial draft; utilized middle ground reasoning	Maintained high confidence; didn't think professionalism was important to warrant a revision	Maintained high confidence; agreed with PR that they could improve their response	Decrease in confidence; countered the PR using variance reasoning	Maintained confidence; felt the PR was too vague to act on	Added more evidence and variance reasoning to response. Relied on praise/solution and counterargument PR to revise argument.

Group Three: Peer Review Provides Confirmation

Student	Draft One	Praise & Stylistic	Praise & Solution	Counterargument	Vague Criticism	Revision
Amaryllis	Felt confident with initial draft; utilized compartmentalize reasoning	Increased confidence because PR agreed with them	Increase confidence because PR agreed with them, so their response was correct	Maintained high confidence, felt their initial draft was still correct	Maintained confidence; felt the PR was too vague to act on	No revision, felt initial decision was still correct after revisiting data
Peony	Felt confident with initial draft; misinterpreted the rate constant data	Increased confidence because PR agreed with them, so their response was correct	Remained confident because the PR agreed with them; did vaguely mention they could improve their response	Slightly less confident, worried their initial draft was not supported with data	Slightly less confident, worried their initial draft was not supported with data	No revision, felt initial decision was still correct after revisiting data
Poppy	Felt confident with initial draft; utilized middle ground/2 out	Increased confidence because PR agreed with them, so their response	Increased confidence because PR agreed with them, so their response	Slightly less confident because the PR disagreed with them,	Maintained confident; felt PR came from someone who didn't	No revision, felt initial decision was still correct after revisiting data

	of 3 reasoning	was correct	was correct	but still felt they were correct	understand assignment	
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