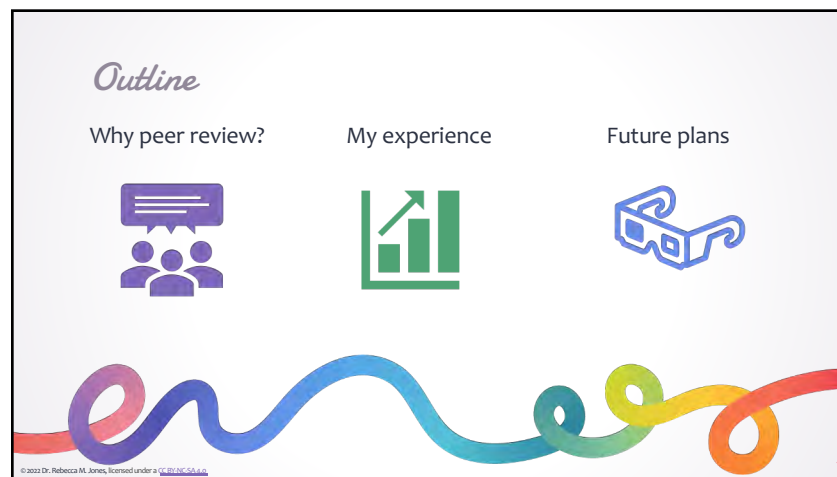
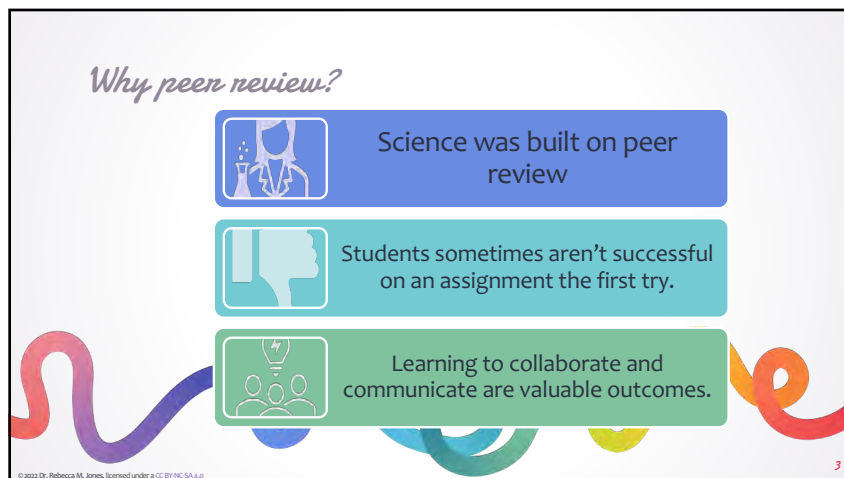


1



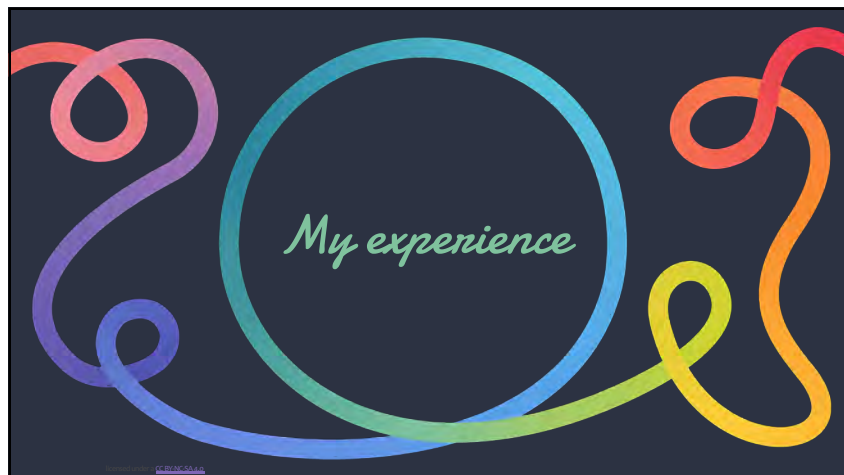
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3



4



5

Lab Reports

- Chem 3441
 - 1st semester Inorganic at Austin Peay State University
- Lab report template
- Peer review sheets submitted with final report.

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Lab Reports

- Peer review
 - Part of report grade
 - Peers completed this form (also used for final grading)
 - Peer reviews submitted with final report.

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Infographic Projects

- Semester long creative research project
- In general and inorganic chemistry courses
 - Elements in engineering
 - Once upon a Chemist
 - Periodic Table
 - Bioinorganic Topics

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Infographic Projects

Evaluation overview

Instructions and criteria

Criteria 1

To begin your review, open the uploaded PDF.

On a scale of 1-10, how effective is the graphical conveying information to the viewer? (10 is excellent, 0-average, 5 poor). Type this number in the rating box.

Answer these two questions in the space provided:

- What 3 things do you like about this peer's graphics?
- What 2 suggestions can you give for improvement?

You may consider the following areas when providing such feedback:

- Focus:** Visual elements are clearly related to the central theme or topic, design looks well planned and organized.
- Content:** Ideas are well developed, effectively supported and appropriate for the audience and purpose of the assignment. Concepts are clearly and creatively expressed. Primary literature examples are effectively featured.
- Composition:** Outlining alignment of graphic elements and negative space, employ appropriate contrasts (e.g., color, font, size) effectively and effectively used software and/or other tools to produce visual elements. Layout is compelling and engaging.
- Conventions:** Grammar, mechanics, spelling, usage, text elements are all properly used and without error.

Criteria worth 10 to 10 points:

Feedback to Learner:

Points possible: 10

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Infographic Projects

- Added rubrics with more detailed expectations
- Students consistently report the peer review as one of the things they linked about this project.

Component	Advanced	Proficient	Emerging	novice	
Focus	Organizational structure (title and introduction, background material) reflects the topic, questions, and key points clearly and consistently throughout. It is clearly organized and makes the content of the presentation coherent.	Organizational structure (title and introduction, background material) reflects the topic, questions, and key points clearly and consistently throughout the presentation.	Organizational structure (title and introduction, background material) reflects the topic, questions, and key points consistently throughout the presentation.	Organizational structure (title and introduction, background material) reflects the topic, questions, and key points consistently throughout the presentation.	Organizational structure (title and introduction, background material) reflects the topic, questions, and key points consistently throughout the presentation.
Content	A variety of types of content and supporting material (explanatory, illustrative, evidentiary, etc.) are used to effectively support the presentation and emphasize the key points.	Content and supporting material are appropriate to the presentation and effectively support the key points.	Content and supporting material are appropriate to the presentation and effectively support the key points.	Content and supporting material are appropriate to the presentation and effectively support the key points.	Content and supporting material are appropriate to the presentation and effectively support the key points.
Language	Language choices are thoughtful, intentional, and effective. Language is appropriate to the audience and effectively supports the key points.	Language choices are thoughtful and generally support the effectiveness of the presentation. Language is appropriate to the audience and effectively supports the key points.	Language choices are thoughtful and generally support the effectiveness of the presentation. Language is appropriate to the audience and effectively supports the key points.	Language choices are thoughtful and generally support the effectiveness of the presentation. Language is appropriate to the audience and effectively supports the key points.	Language choices are thoughtful and generally support the effectiveness of the presentation. Language is appropriate to the audience and effectively supports the key points.
Composition	Visual components are clearly related to the central theme or topic, design looks well planned and organized.	Visual components are clearly related to the central theme or topic, design looks well planned and organized.	Visual components are clearly related to the central theme or topic, design looks well planned and organized.	Visual components are clearly related to the central theme or topic, design looks well planned and organized.	Visual components are clearly related to the central theme or topic, design looks well planned and organized.
Conventions	Grammar, mechanics, spelling, usage, text elements are all properly used and without error.	Grammar, mechanics, spelling, usage, text elements are all properly used and without error.	Grammar, mechanics, spelling, usage, text elements are all properly used and without error.	Grammar, mechanics, spelling, usage, text elements are all properly used and without error.	Grammar, mechanics, spelling, usage, text elements are all properly used and without error.

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Gallery Walks

- Fall 2017 and 2018, Chem 446

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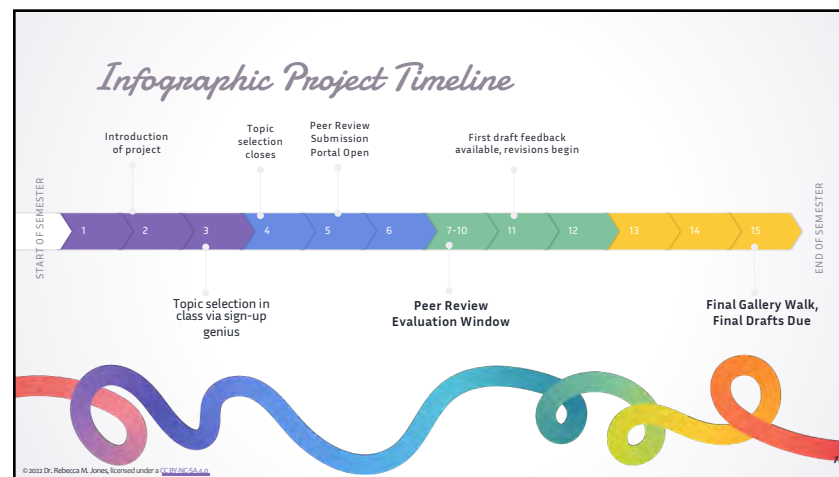
Gallery Walks

- Fall 2019, Chem 271
- 150th anniversary of periodic table

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In-class Problems

- Starting Fall 2020, shift to flipped classes
- In-class group problem solving
 - Large and small white boards
- Inorganic
 - Group discussions
 - What was familiar?
 - What was new?
 - Collaborative problem solving

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Summary thoughts

- Peer review shifts focus
Less "sage on the stage", more problem solving and collaboration, students can learn from each other and value others' insights.
- Peer review can meet with resistance.
Sometimes perceived as less valuable, often difficult for peers to provide honest critical feedback, good to partner with instructor/faculty review.
- Peer review builds confidence and reveals strengths
Gallery walks and offline reviews are less stressful than presentations. Students with creative talents can share their strengths.


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Future plans




College of Science
Undergraduate Research
Colloquium



Chem 460: Chemistry in the
Kitchen

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Thanks!

Any questions?
You can find me at:

- drrebeccajones@gmail.com
- <https://www.drrebeccamjones.com>

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