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Using Art to Study Science: Assessment of Creative Assignments in Student Success

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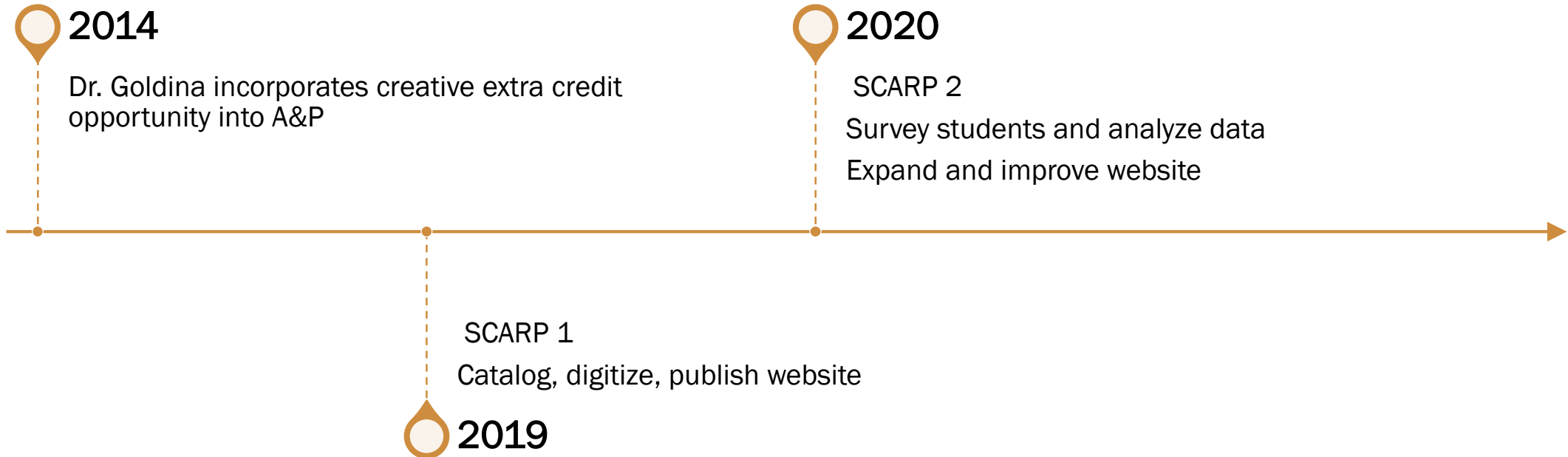
Using art to study science: assessment of creative assignments in student success

REBECCA KRUSE

DR. ANYA GOLDINA

CAROL COSTA OUIMET

How it all started...

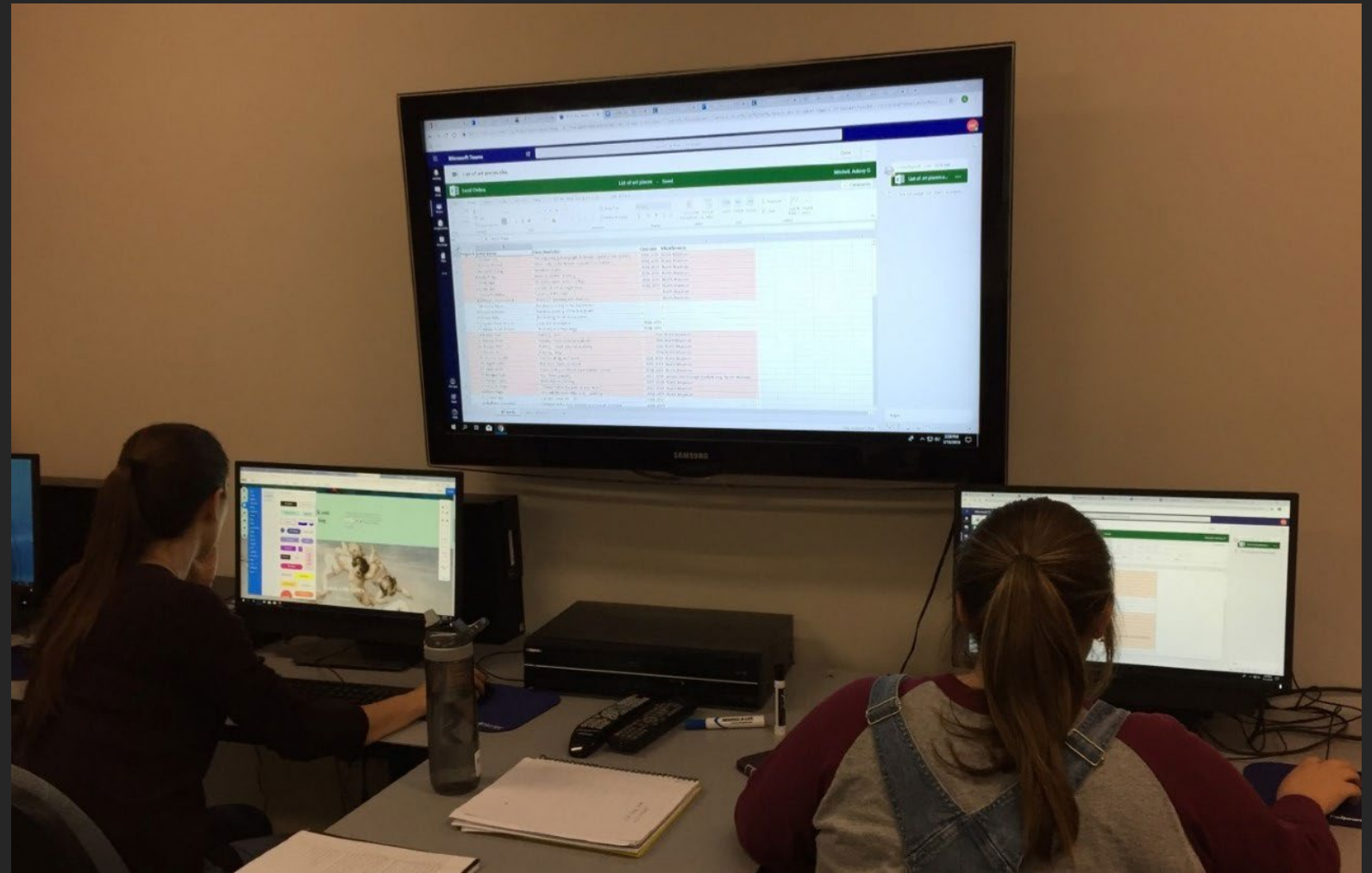


Extra Credit Project (ECP):

- Students may complete 1 project from each category
 - Category 1 - reflective/analytical
 - Review of current A&P research
 - Myth buster
 - Personal reflection
 - Category 2 – creative
 - Children's story book / poems
 - Artistic creation
 - Musical piece (song, dance, skit)

SCARP 1 2019

- Catalog and digitize artwork
- Create a platform to display artwork
- Show physical items to the public



SCARP 2 2020

- Create and send survey
- Collect and analyze results
- Edit and update website
- Catalog more art

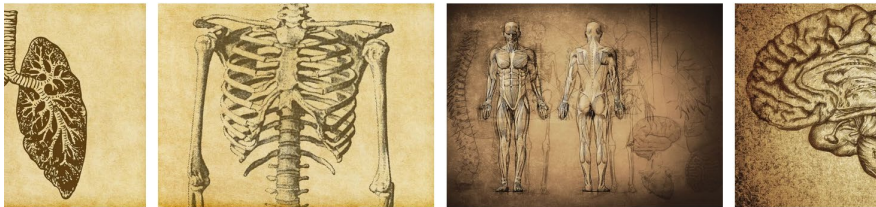




Website Design

- Using WIX for site development
- Available resources
- Future developments

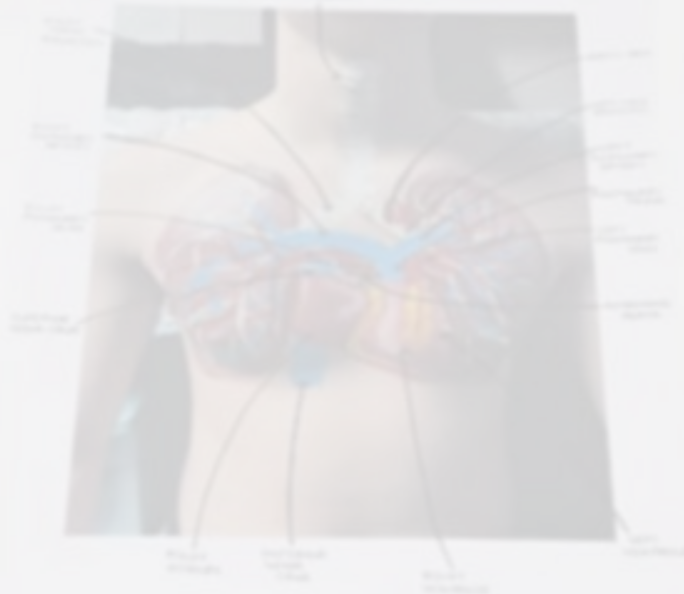
Choose a system to explore the collection!



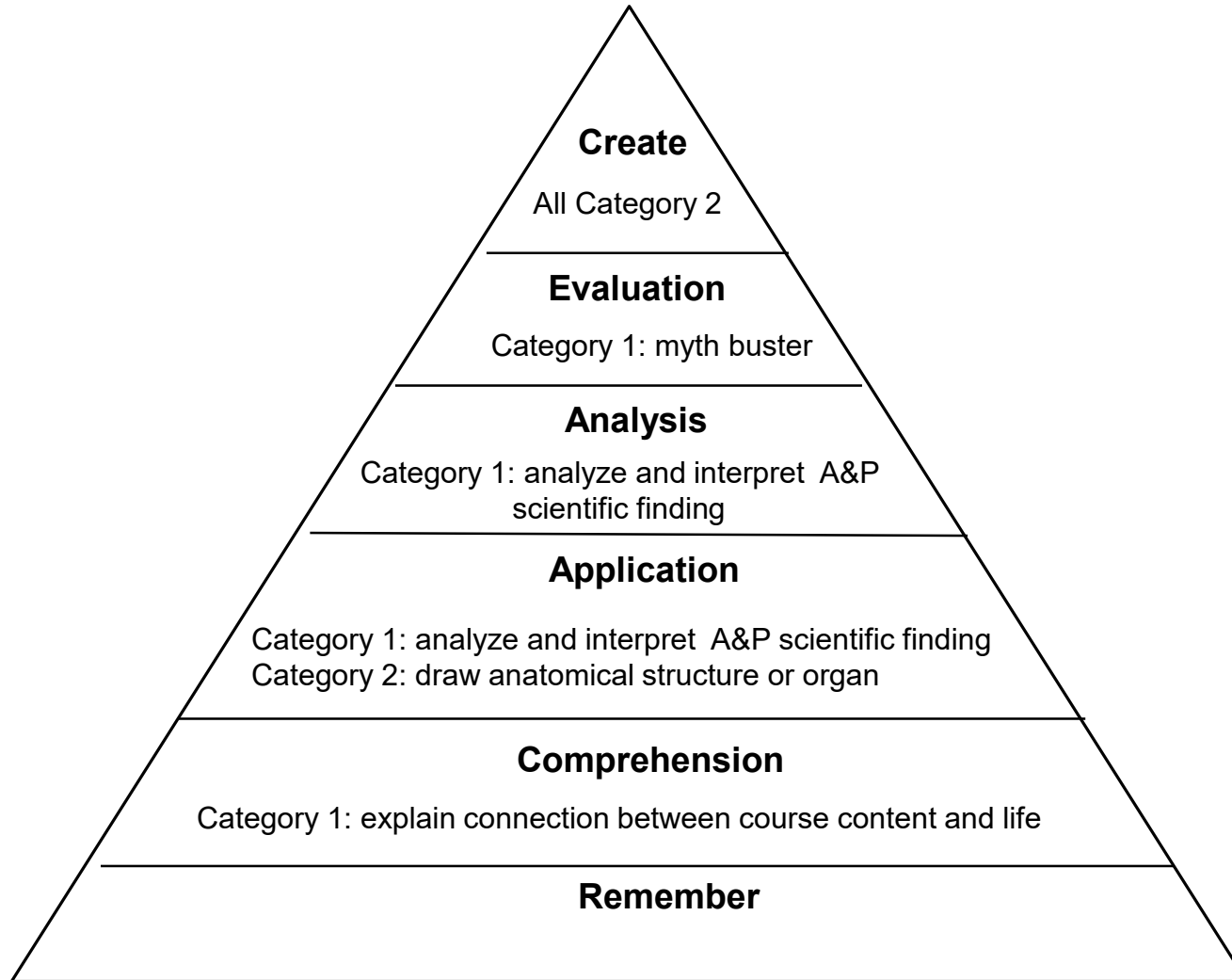
HOME
is where the
HEART IS



<https://kruser68.wixsite.com/mysite>



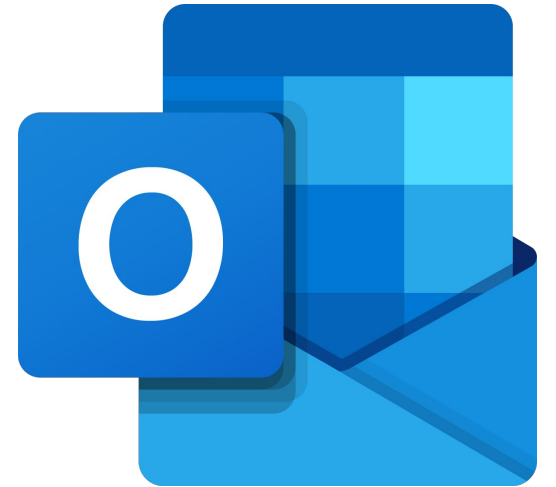
According to Dr. Goldina



Do students feel the
same way?

(i.e. Is Dr. Goldina off?)

Surveying Students



Elizabethtown College
Alumni Association™

2 parts and 1,000,000 details

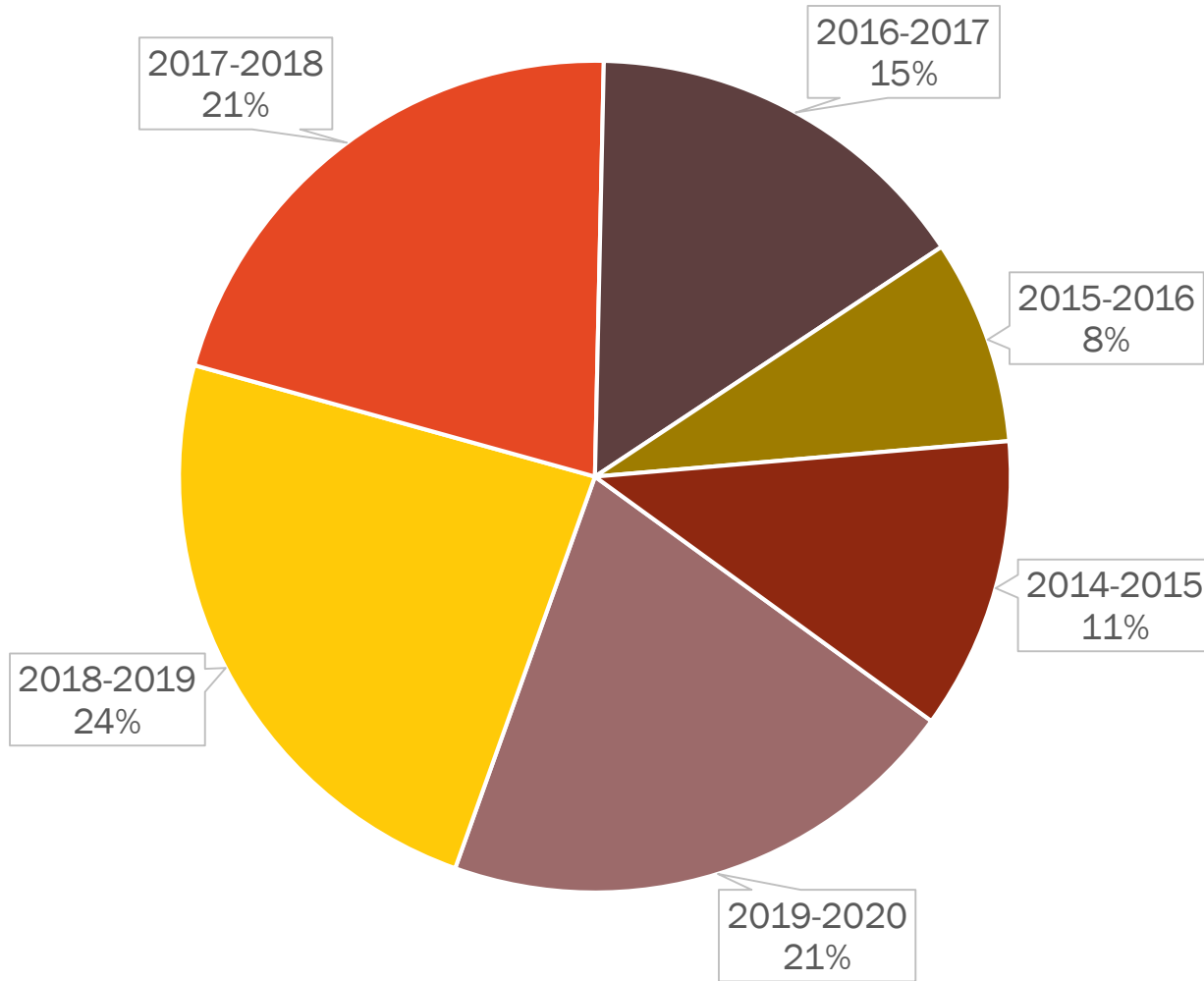
CREATING THE SURVEY

- Main ideas to convey
- Wording
- Formatting
- Legal disclosure
- IRB approval

GATHERING RESPONSES

- Spreadsheet format
- New answers
- Sending and resending
- Graphing

Q2: Year taken Bio 201/202

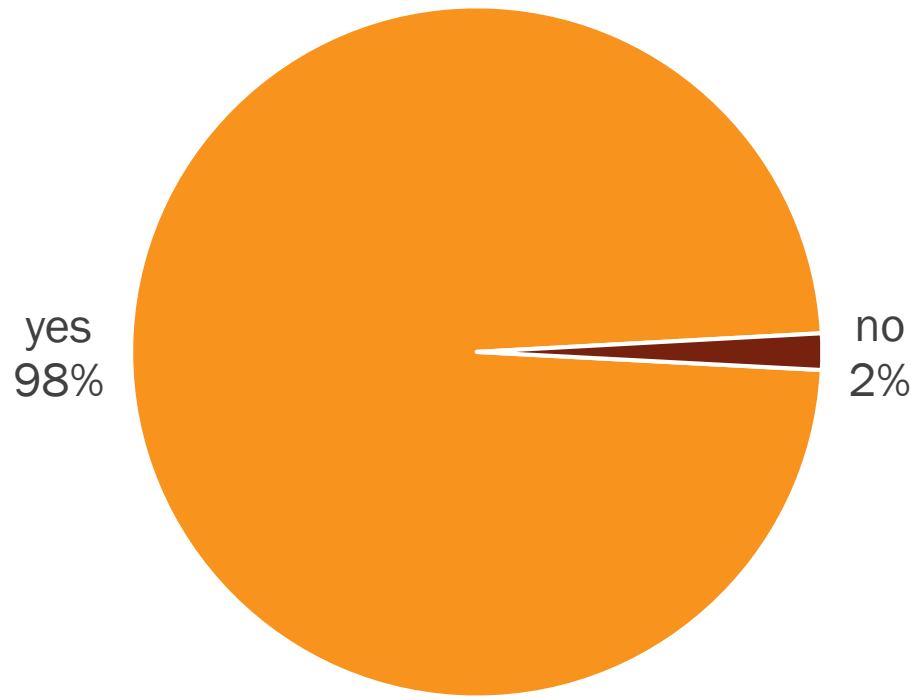


Responders by year

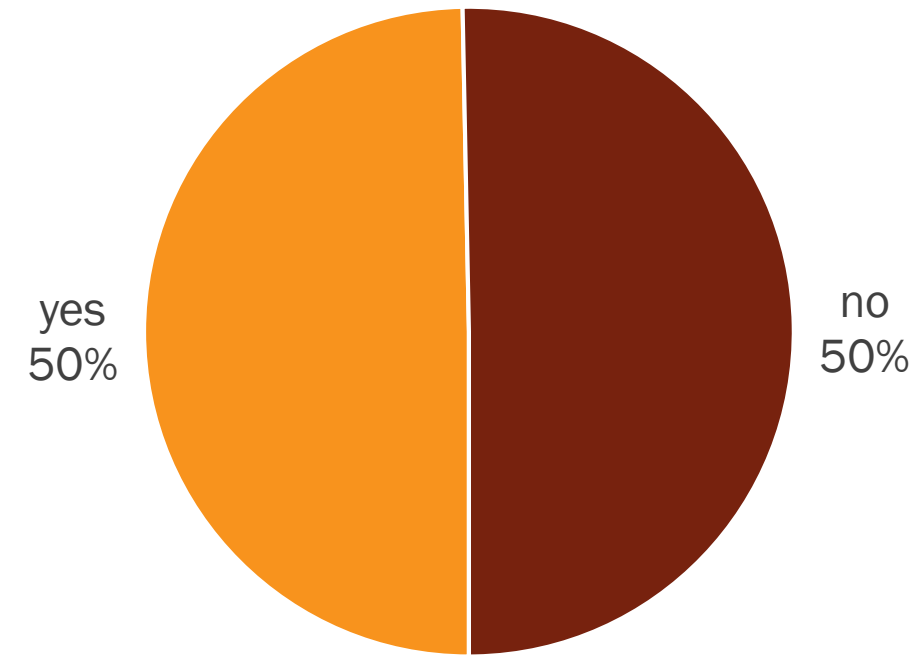
Findings

1. Most students complete the
extra credit project

Did you complete the extra credit project?

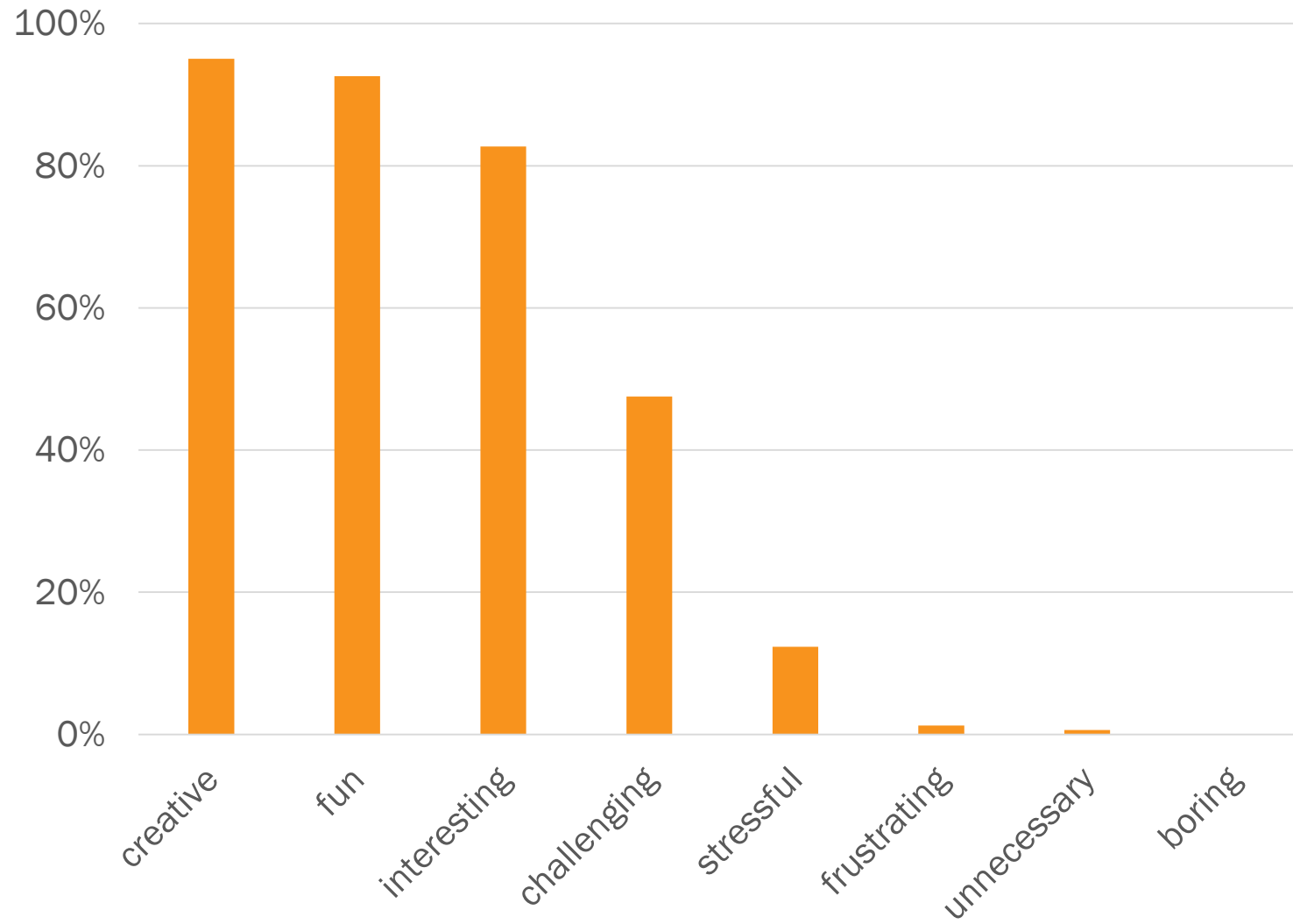


Did you have any background in art/dance/music/craft that helped you complete your extra credit project?



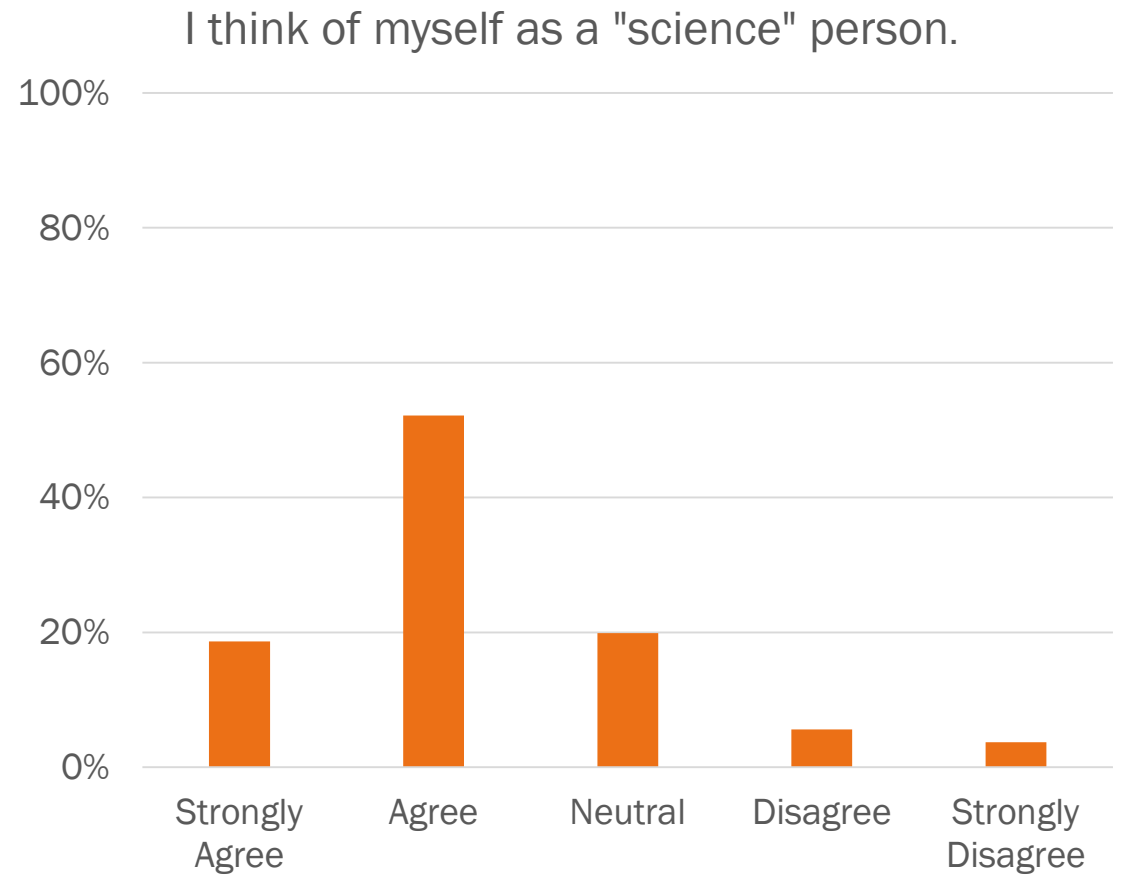
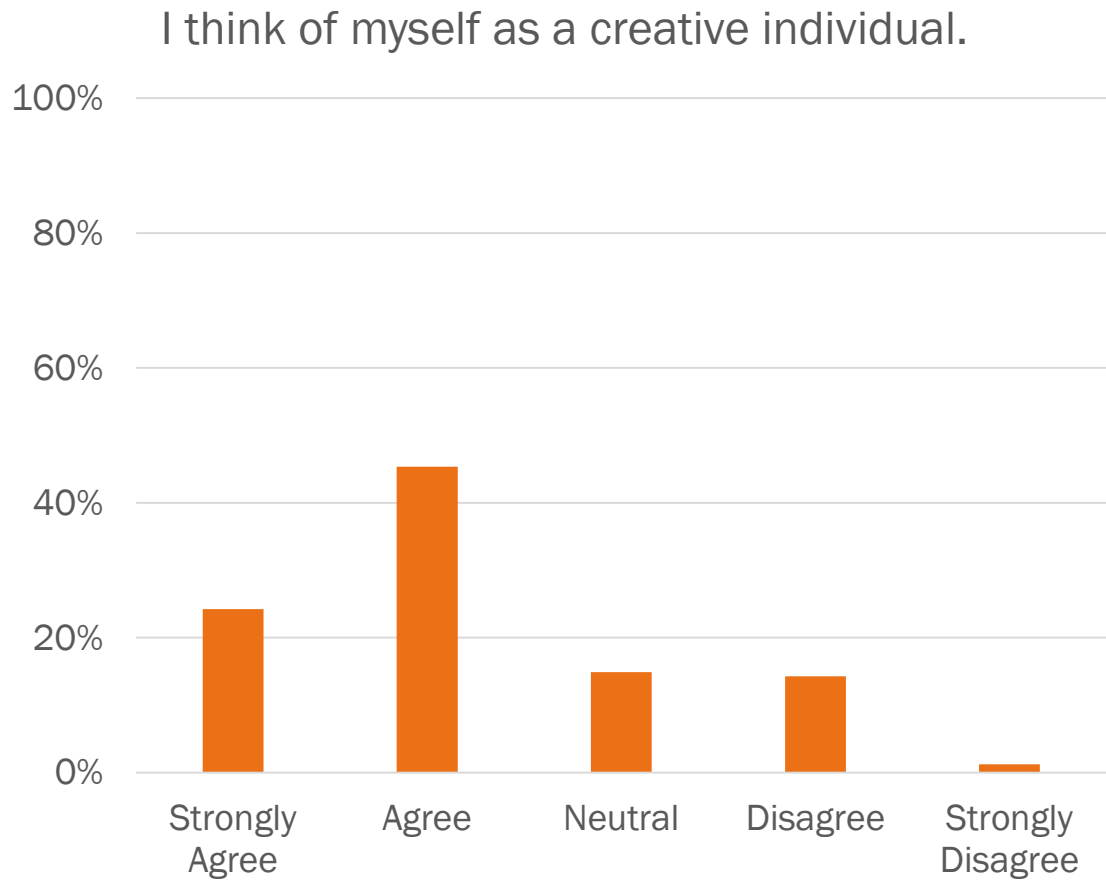
2. Extra credit project
increased student enjoyment
of the course

Please select all that apply: The extra credit options were...



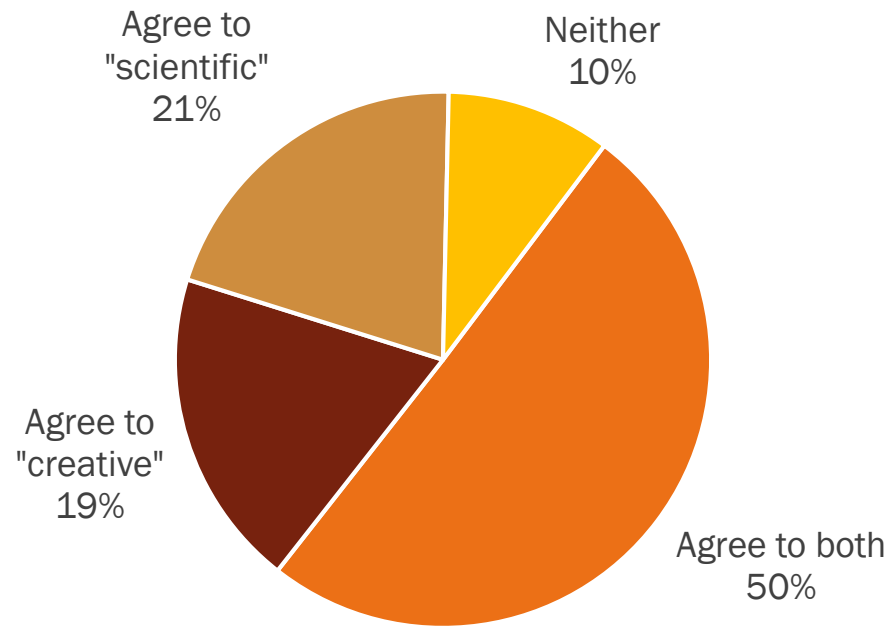
2. ECP increased student enjoyment

3. The project inspires students to connect art and science.

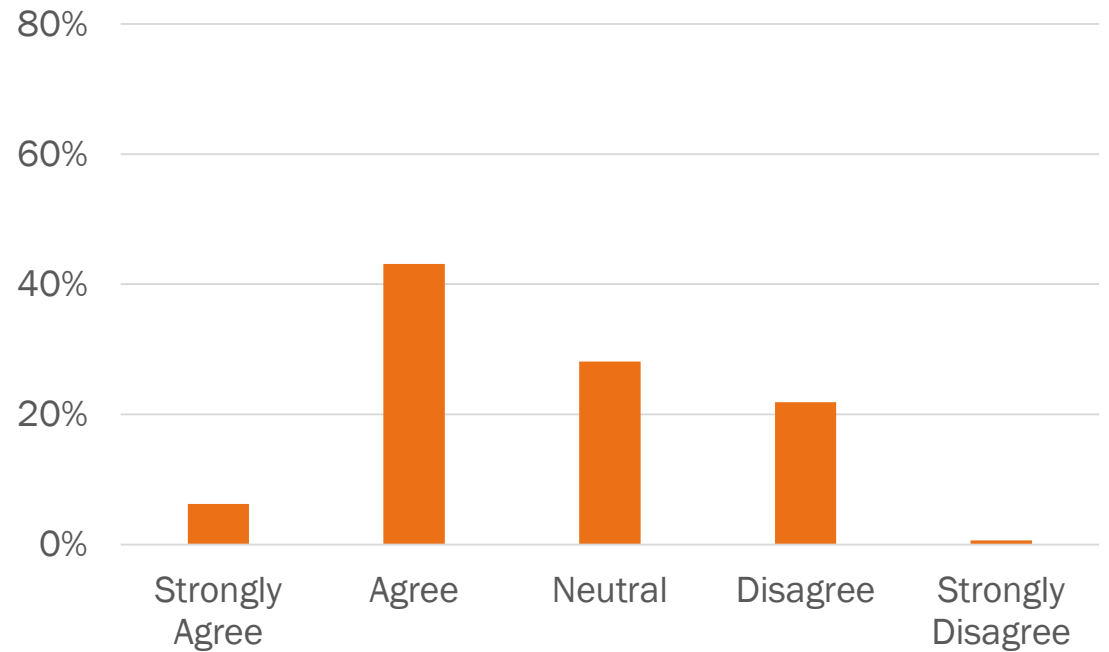


3. ECP inspires students to connect art and science

What percentage of students think they are artistic, creative, both, or neither?



Applying my creative abilities to a science concept was unexpected.



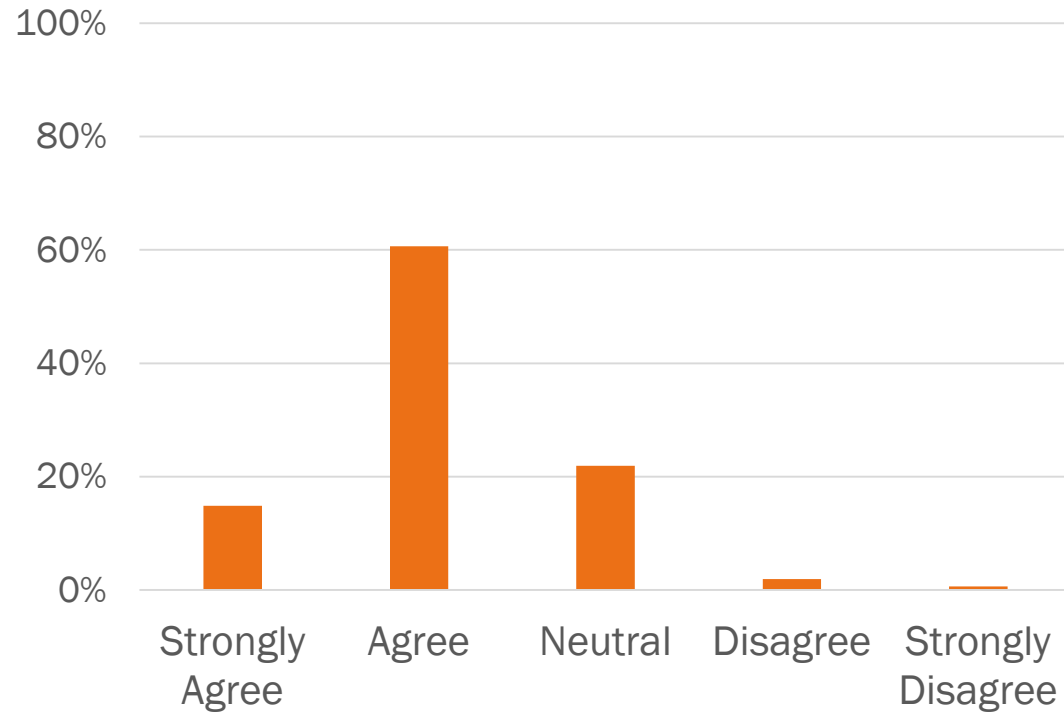
3. ECP inspires students to connect art and science



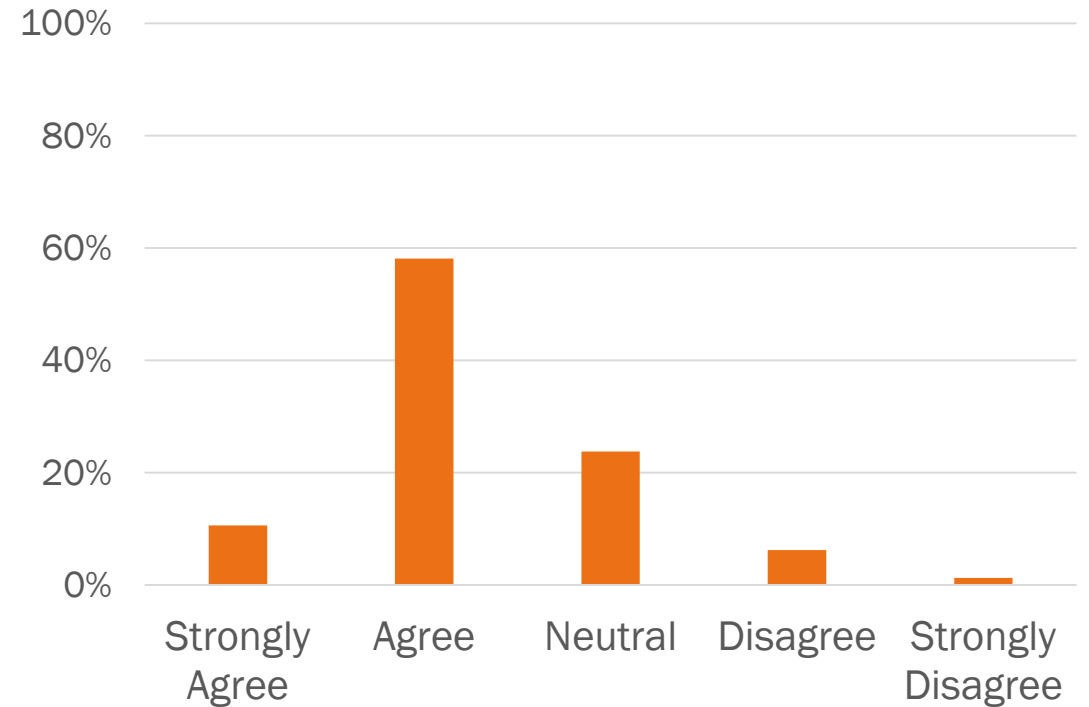
Responder 20: “When you have to take a hard-to-understand concept and apply it to something seemingly unrelated, like art, it helps you form connections and understand that concept better.”

4. The project influenced student learning

I feel that completing this project made me understand the scientific concepts better.

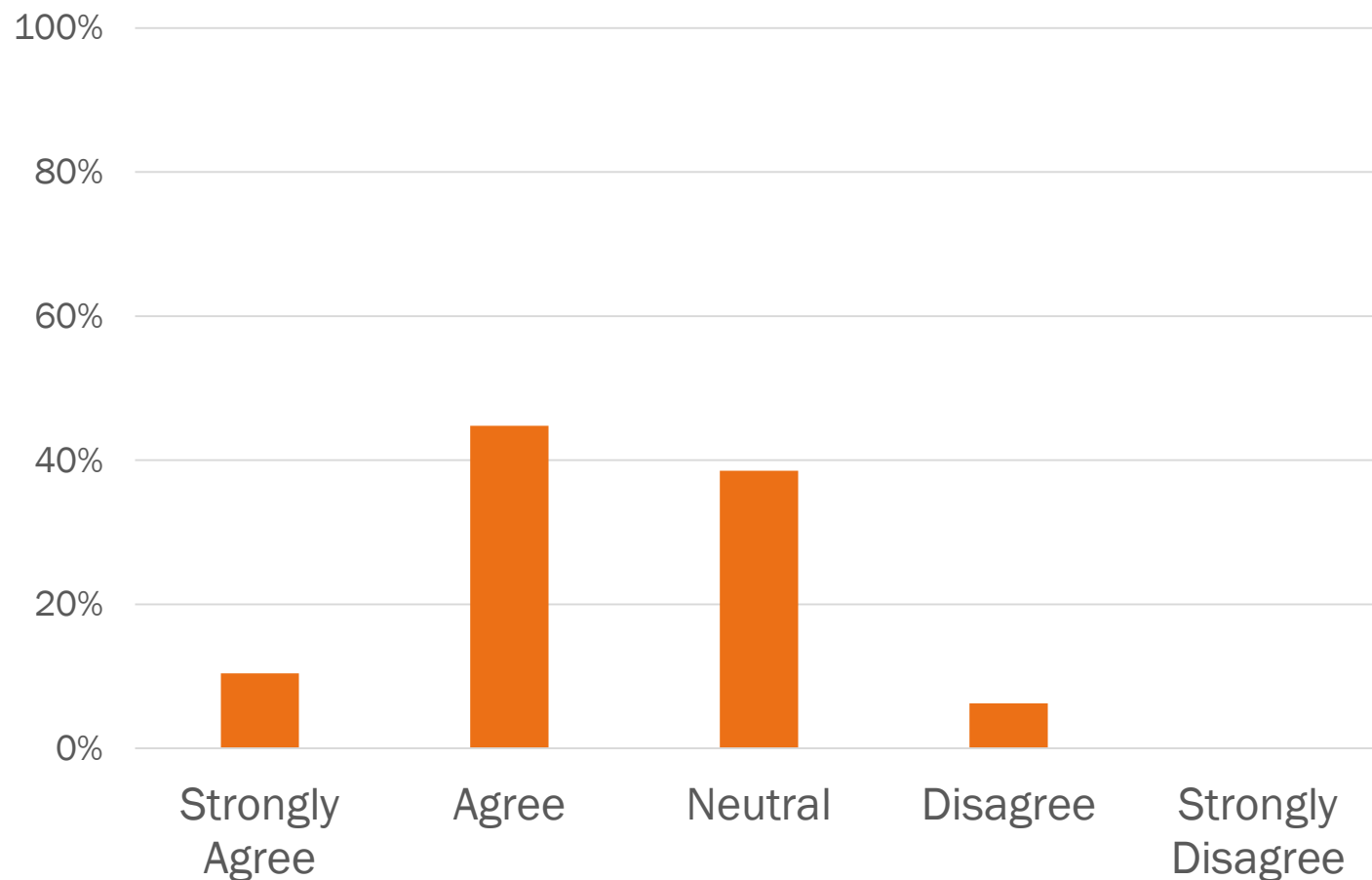


I recognized my potential to understand sophisticated scientific concepts through the extra credit project.



4. ECP helped students learn

Completing the extra credit project made me think about the material differently.

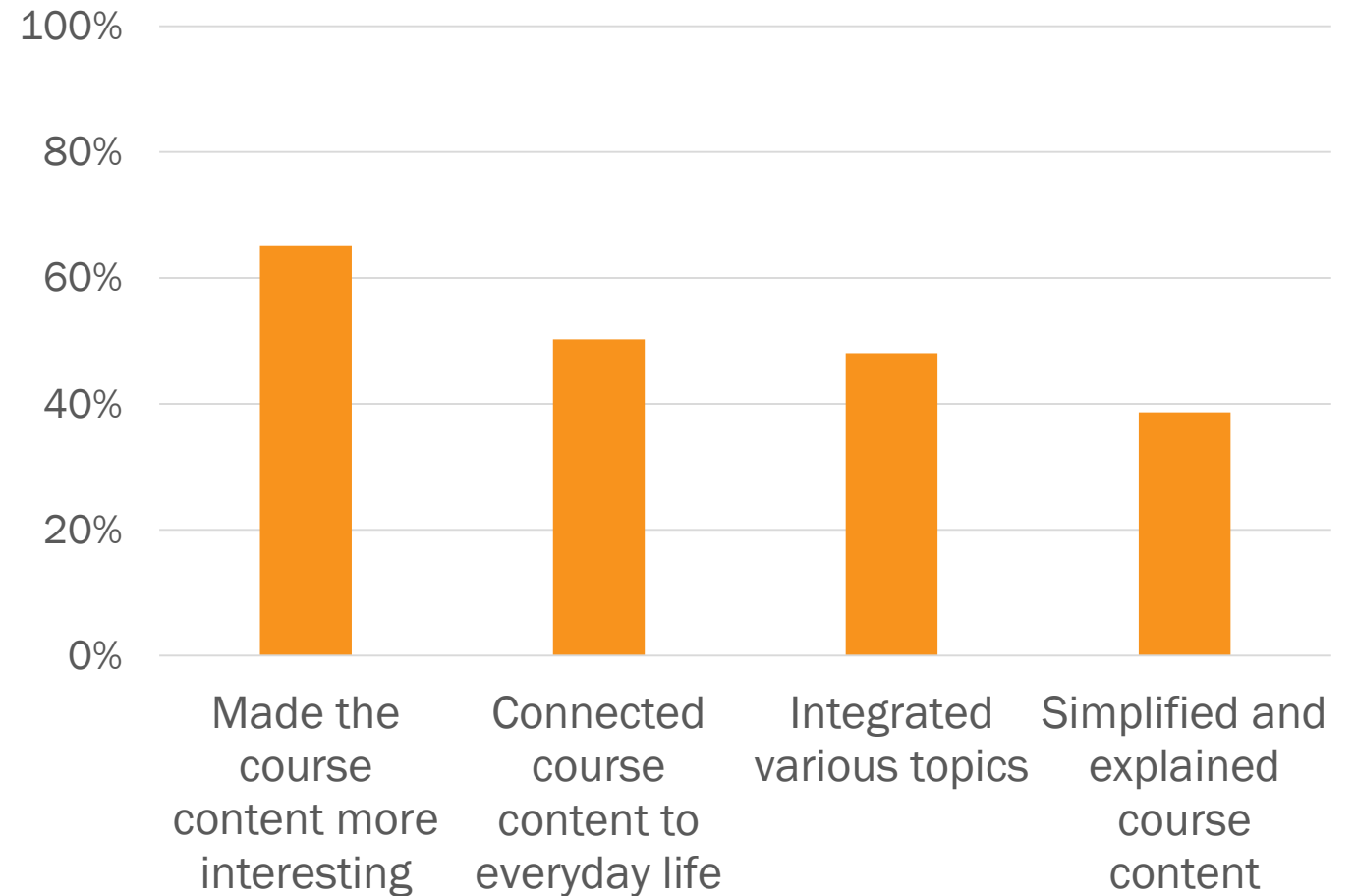


Responder 67: "The creativity behind the extra credit assignment allows a person to develop their own understanding of the topic because they have to view it through a different mindset".

4. ECP helped students learn

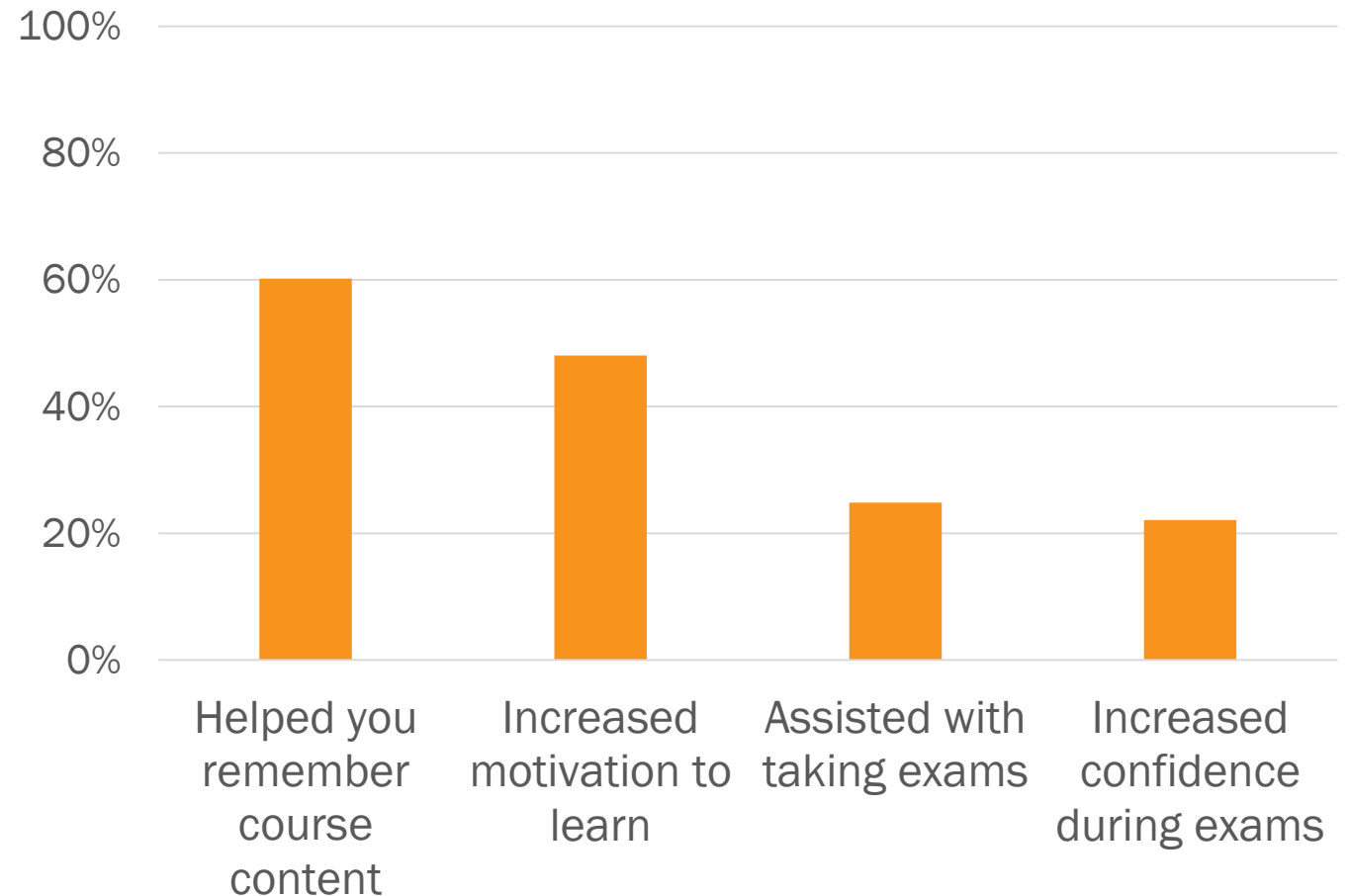
Responder 116: "I was able to understand the concepts thoroughly while also using the fun, enjoyable, and creative aspects to view the information with a different and more educated perspective."

With regards to course content, did you feel that the extra credit activity:



Responder 16: "I can look back on and know that it is engrained in my memory because I took extra time and care to complete it".

With regards to course content, did you feel that the extra credit activity:



The “A” in STEAM

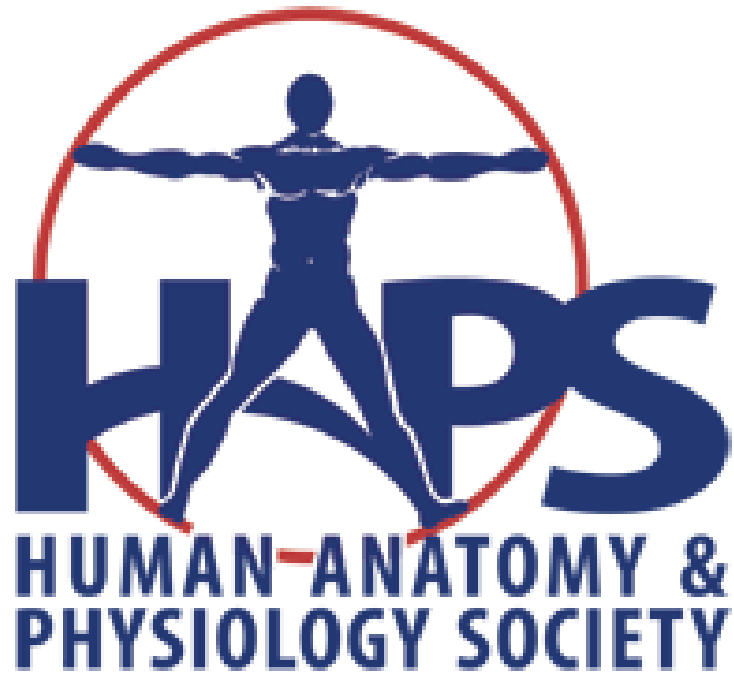


- Responder 35: "Transferring what we learned in a science aspect to a more artistic aspect helped me understand how beautiful the human body can be".
- Responder 142: "Creating something with my own hands activated other parts of my mind and interwove them together. It really helped me connect more to the course,"



Summary

1. Most students complete the extra credit project
2. Extra credit project increased student enjoyment of the course
3. The project inspires students to connect art and science.
4. The project influenced student learning
5. (Bonus) Dr. Goldina is not completely off her rocker



Future Studies

- Application in students' careers
- Analysis of open-ended questions
- Publishing and presenting current findings
- Continuing website improvements and accessibility
- Developing marketing strategy



Thank you!