

Creating with Biology: The Intersection of Art & Science

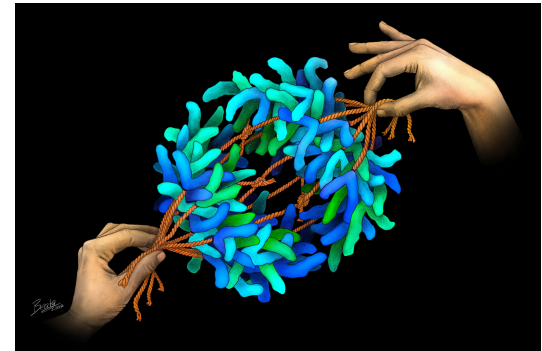
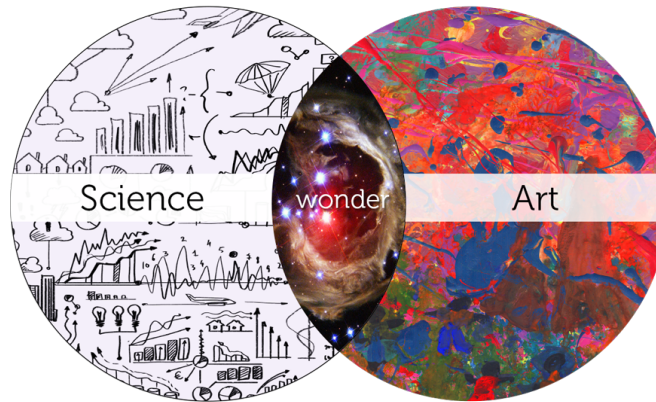
Final Deadline:_____

Name _____

Date _____

Instructions:

In the past, you might have heard someone say they are “left-brained” meaning they are analytical and methodical, or “right-brained” meaning they are creative or artistic. Many people view science and art as two concepts on opposite ends of the intellectual spectrum, but some artists and scientists have found beauty and power in the intersection between the two. For this project, your goal will be to create an art piece that engages and educates your community. Be creative and create artwork that is original to you. Your biology artwork will be displayed on the Creating with Biology [Website](#).



Resources:

- [Where do art and science meet?](#)
- ["Art and Science" OR "Art or Science"? | Warren Karp | TEDxAugusta](#)
- [How art and science collaborate, intervene and innovate | Claudia Schnugg | TEDxLinz](#)
- [11 Fascinating Artists Inspired by Science](#)
- [Beata Science Art \(@beatascienceart\)](#)

- [“How To Label Artwork in an Exhibition”](#)
- [Art descriptions](#)

Project Outline

Step 1	Launch Day	- Teacher will pass out project outline and rubric - As a class we will brainstorm ways science and art can intersect. We will then explore science Art and how it aligns with science communication - Possible stakeholders: austin nature and science center, art museum, science museum, public parks - Public art showcase: afterschool, virtual, website - Identify class goals & start brainstorming!
Step 2	Project Proposals: Set goals & timeline	- Brainstorm project ideas - Complete project proposal: Project Proposal Template - You will create a timeline, determine what supplies you will need, determine target audience, and decide on a medium & biology concept
Step 3	Draft Day: Predict needs & Identify issues	- Turn in a rough sketch/draft of your planned artifact - How will you address all parts of the final rubric? - Bullet pointed summary of artifact explanation - Would you consent for your teacher to share your artifact anonymously on their teaching website? - Plan to obtain the art supplies you'll need for next class
Step 4-5	Work Days	- Work on your final artifact. - You must complete an individual check-in with your instructor. - Be prepared to give a progress report and answer questions about your artifact
Step 6	Gallery Walk: Peer Review	- Submit your artifact and artifact description to the Blend discussion page - Look at your peer's work and respectfully comment on 3 people's work - What is great, interesting, different about their artifact? - What did you learn from their art?
Step 7	The Unveiling	- Make any final corrections or changes to your artifact - Turn in your final artifact and explanation - Share your artwork with your community! Use social media, friends, family. - Teacher will share exemplary work on their teaching website (w/consent!)

Final Project Checklist

Required in your art: The subject of your art must be related to a biology topic

- ☐ **SUBJECT IDEAS:** Famous biologist, ecology, biochemistry, genetics, body systems, dna/rna/protein, diversity of life, cells, invasive species, poisonous/venomous plants & animals...
 - ☐ View more concept ideas here: [Concept Ideas](#)
 - ☐ My subject is _____
- ☐ **MEDIUM IDEAS:** Drawing, painting, 3D model/sculpture, knitted/crocheted, play/skit, song, stand-up, video, PSA pamphlet, sewing, pottery, poetry, mosaic, dance, baking, jewelry, and more! [List of art media](#)
 - ☐ My medium is _____
 - ☐ What I will need for this project _____
 - ☐ You will need to submit your artwork via **Blend as a word doc, PDF, picture, or video**
 - ☐ If you are using a picture- submit multiple pictures from different angles & lighting! Natural sunlight & a phone camera can give you a great quality photo.
- ☐ **EXPLANATION:**
 - ☐ Plaque with art description
 - ☐ The artist's name
 - ☐ The title of the work
 - ☐ The medium of the work, Year created
 - ☐ Example:

“Albert Einstein Jr.
The Years Between Lives: Cicada Life Cycles
Acrylic paint on cardboard, 2021”
 - ☐ 100 words minimum to describe your work
 - ☐ What biology topic did you choose to focus on and why?
 - ☐ Science explanation: What do you want your audience to learn from your piece?
 - ☐ Double check your grammar/spelling

Project Rubric

Criteria	Beginning	Developing	Accomplished	Exceptional	Score
Preparation (50 pt)	-Student is missing most preparation components.	- Student is missing 2 of the preparation components.	-Student is missing one preparation component.	-Student turned in their proposal (10pt) and rough draft (10pt) in a timely manner. Clear effort was put into preparing their idea. (10pt) - Students met with their teacher for an individual check-in at least once (10pt) -Student turned in all google form check-ins (10pt)	
Gallery Walk (10 pt)	-Student has not submitted their project to the Blend discussion -Student commented on no projects	-Project is shared to Blend discussion -Student only commented on 1 person's project	-Project is shared to Blend discussion -Student only commented on 2 people's projects	-Student shared their project to the Blend discussion (5pt) -Student observed their peer's work and provided respective comments on 3 projects (5pt)	
Project Artifact (20 pt)	-Artwork is incomplete -Science concept is not apparent -Effort is questionable	-Artwork is complete -Science concept is somewhat apparent - Effort was made	-Student artwork is well-done -Science concept is mostly apparent -Clear effort was made	-Student artwork is creative, original, and school appropriate (5pt) - Science concept is clear & educational (10pt) -Effort was clearly put into the artifact (5pt)	
Project Explanation (20 pt)	-Explanation is less than 100 words -Science explanation is incomplete or incorrect -Many grammatical mistakes	-Explanation is less than 100 words -Explanation is partially incomplete/incorrect -Some grammatical mistakes	-Explanation is 100 words -Explanation is partially incomplete/incorrect -Few grammatical mistakes	-Explanation provided is 100 words minimum (5pt) -Science explanation is thorough, correct, and relevant to the art work(10 pt) -Hardly any spelling/grammar mistakes(5pt)	

Total _____