

<b>Category Requirements – 30%</b>	
<b>10 pts.</b>	<p><b>Writer’s Statement (1-3 pages)</b>            Provide insight into the work. This could include (but is not limited to) the following:            What provided the inspiration for the work?            Why did you make the work? What was the purpose?            Which scientific references are made and how do they contribute to the piece?            What do you hope readers will get out of the piece?            What did you learn about science from doing this work?  <i>Please feature your Writer’s Statement alongside your writing piece at the Expo.</i></p>
<b>20 pts.</b>	<p><b>Creative Writing (5-8 pages)</b>            Employ novel or dramatic ways (could be a script) that incorporate accurate scientific information. Engage the reader by presenting information in creative and inviting ways. Demonstrate originality of thought.            Express distinctive creative (writer’s) voice.            For example, provide an accurate explanation and or exploration of a biological or scientific process from an alternative/non-traditional viewpoint.            The paper should include enough science to move the story forward.</p>
<b>Science Content– 30%</b>	
<b>30 pts.</b>	<p><b>Science Background Paper (5-8 pages)</b>            What are the main scientific concepts that your writing piece is based on?            For example, if your piece references stem cells, provide information on the science of stem cells. Demonstrate a mastery of relevant scientific ideas by accurately explaining difficult concepts in terms a layperson could understand. The work should provide an appropriate combination of explanations, examples, and details that are specific, clear, and relevant to the topic. The content of your work should reflect critical thinking about the topic.</p>
<b>Connections and Collaborations; General Written Requirements – 10%</b>	
<b>5 pts.</b>	<p><b>Connections and Collaborations</b>            Include 1-2 typed pages describing the connections you have made with other people as well as the resources you have used the most. More weight is given in judging to those students who put more effort into locating and using available resources. A good use of resources may include working with an advisor or mentor, making arrangements to tour a company, interviewing an adult in your field, in addition to reading an important paper or uncovering an invaluable website. What did you learn? How did this resource help you? An interview with an adult in the field carries far more weight than a Google search. You do <i>not</i> have to request a mentor through NWABR to excel in this area.</p> <p>If a qualified adult (i.e. your Expo Mentor, someone you interviewed or a tour guide at site visit) Significantly helped you with your project, please include:</p> <ol style="list-style-type: none"> <li>a) The person’s name, title and contact information.</li> <li>b) Dates you emailed, talked on the phone or met.</li> <li>c) Your thoughtful reflections on the experience of working with that person</li> </ol>

<b>5 pts.</b>	<p><b>Paper Format and Annotated Bibliography</b>  Papers should be typed/word processed with one-inch margins. Use an easily readable font such as Times Roman or Arial, 10-12 point, double-spaced. If included, illustrations must be neat and applicable, with a title and a source. Number your pages and label section headings. Consistently follow the rules of Standard English for usage, spelling, capitalization, and punctuation. If you are using Windows Vista or 7, please use the 'save as' function to save your paper as a "Word 97-2003 Document."</p> <p>Annotated bibliography should be in standard MLA or APA format. Use a minimum of 5 sources. The bibliography should include all books, papers, journal articles, and communications used in your research. For at least 5 sources, provide one reason why you believe the source is credible and describe how it was used in your project.</p>
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<b>Creativity – 10%</b>	
<b>10 pts.</b>	<p><b>Creativity</b>  Show your ability to creatively approach writing about your topic. Your work should reflect your special insights and abilities to address scientific content using engaging writing. Incorporate a good balance of science and creativity throughout your written work.</p>

<b>Poster/Interview at Expo Event – 20%</b>	
<b>10 pts.</b>	<p><b>Poster</b>  Posters should convey important information about your project in a visually appealing manner. Displays and models must be freestanding and have the following maximum dimensions: 4 feet width, 2.5 feet depth, and 3 feet height (from table).</p>
<b>10 pts.</b>	<p><b>Interview/Presentation</b>  <i>Judges will be looking at your effectiveness in communicating your project to them, and your understanding of your topic.</i></p> <p>Your judge will want an overview of your project - practice giving a short (2-3-minute) 'walk-through' of your project that explains it in straightforward terms. You will receive written feedback from your judge regarding the strengths of your project, and how you could make it even better in the future.</p> <p><i>The following are samples of the types of additional questions a judge might ask you: Why were you interested in this topic? What did you learn from doing your project? What was the most enjoyable/difficult aspect of doing this project?</i></p>
<b>100 points total</b>	

**What you need to do on or before April 23rd, 2016**

**Register** for the Student Bio Expo. Student registration will be open between April 3rd and the deadline Sun midnight April 23rd, 2017.

**Submit** an electronic copy of your project to NWABR (and your teacher) using the **BOX cloud storage**. Further registration and submission information will be posted at: <https://www.nwabr.org/events-programs/student-events/student-bio-expo>

**What you need to bring to the Expo**

Bring a hard copy of your written work. Include the following :

- Cover Sheet
- Writer's Statement
- Creative Writing Paper
- Scientific Background Paper
- Bibliography + Connections and Collaborations
- Poster

# Writing - Creative Tips

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A paper on a biotech or biomedical subject can be creative by combining reality and fantasy in a way that the science is clear and truthful but still fun.

For example, when a thing or animal is given human characteristics, it's called 'anthropomorphism'. Usually frowned upon in formal science writing, using this technique to describe a biological process in a creative piece can be entertaining and enlightening.

What do you think a molecule in a polymerase chain reaction does, thinks, and feels? The "does" is the reality of science, while the "thinks" and "feels" are fantasy.

You may also consider how biotechnology and biomedicine are portrayed in popular creative writing as an exercise to think about how science and storytelling merge to engage the general public.

This project category gives you the opportunity to use your writing skills, creativity, and science knowledge to express information involved with this field. You will need to use accurate science information as the basis of your creative writing.

## Potential Resources

Creative Writing for Teens

<http://teenwriting.about.com/library/weekly/bltopicindex.htm>

Creative Writing Tips from the Masters

<http://www.writingclasses.com/InformationPages/index.php/PageID/269>

## Science Poetry

<http://www.authorsden.com/categories/poetry.asp?alpha=a&catid=38>

# Student Bio Expo

Student Name:

Student School:

Project Title:

# Creative Writing CW

<b>Judging Criteria</b> <small>(Judging criteria are explained in the <i>Student Requirements</i>)</small>	Superior	Excellent	Good	Developing	Limited
<b>Creative Writing Category Req. (30%)</b>					
Writer's Statement (10 pts)					
Creative Writing (20 pts)					
<b>Science Content (30%)</b>					
Science Background Paper (30 pts)					
<b>Use of Resources/Written Req. (10%)</b>					
Effort in Use of Resources (5 pts)					
Paper Format; Annotated Bibliography (5 pts)					
<b>Creativity (10%)</b>					
Creativity (10 pts)					
<b>Poster/Interview at Expo Event (20%)</b>					
Poster (10 pts)					
Interview (10 pts)					

## Comments

(Please continue on back, if needed)

**What I found particularly impressive about your project:**

**Pre-Judging:**

**Final Judging:**

**What you could do in the future to make it better:**

Overall Rating (circle one)

Superior

Excellent

Good

Developing

Limited