Jeanie Ritchie Grant Application 2022-23				
Project Title:	Bioluminescence and Phosphorescence: Glowing Animals: Gruesome and Glorious			
Lead Teacher/School Project Director Name:	Steffany Cressey			
Email Address:	scressey@mpcd.org			
Best Phone Number:	650 346 7831			
Names of Other Teacher Participants and contact emails for all (also include school if project will span multiple campuses):	Alison Howard Joyce Chan Sara Bartlett			
Principal's Name:	Alicia Peyton-Miyasaki			
Director of Technology Name: (if applicable)				

Application must be submitted no later than 10/14/22 for consideration.

Before this application is submitted, it is necessary for the principal to review it.

Has the review been completed? _x Yes ____ No

Principal Signature / Date: ____alicia payton- Miyazaki

I have reviewed this proposal and am aware that it is being proposed for implementation and will be supported through the Technology Department.

Director of Technology Signature/Date:

<u>PLEASE NOTE:</u> The Jeanie Ritchie grant process is anonymous. Your application will be considered according to an ID number only. Please do not include the name of your school in the body of your application. This title page will not be made available to the committee until the grants are awarded.

Froject Thie: Biolumines	cence: Glowing Animals: Gruesome and Glorious		
This year, JRG will reserve \$20k for grants focusing on SEL/Mental Heath. Please check box if grant fits this category.	Type of Grant (check all that apply) XNew Repeat (# years) Technology Support Approved Mental Health/SEL		
Cost per student	# Students involved: 80 # Schools involved: one		
\$13.77	Grades involved: 2nd Grade		
Total Funding Requested*	Date(s) when will the project be conducted:		
\$ 1102.17	January-February, 2023		
	Project Description		
Our goal is to explore and more deeply understand animals that glow in the dark: How they glow and why they glow. Students will study and gather facts about types of animals that glow in the dark such as fireflies, lanternfish, squids, etc.			
Core Activities : Describe what students will <u><i>do</i></u> as they participate in the project. How will the project accomplish its goals?			
r-J	plish its goals?		
Students will study l diagrams, use maps t groups of students w other second grade o	uminescence, light and reflection as well as draw scientific o mark habitats and create paintings and models. Small rill together research and write their findings, present to the lasses: Final projects will be viewed by students important uring the culminating event "Glowing: Gruesome and Glorious		

6.	Students will use flashlights and mirrors to direct and reflect light onto their art pieces. (Mirrors and flashlights are sourced from discontinued FOSS science kit materials.) Students will set up and label their art exhibit. They will write invitations to their significant adults, administration, past teachers and their Big Buddies: All will be invited to the 'opening'.			
Innovation : To what standards and/or aspects of the curriculum is the project linked? In what ways does it go above and beyond what is normally required?				
Units) using understand r and dark, stu Second grade this grant no	ith our Units of Study, Reading and Writing Workshop (Informational black lights, mirrors, reflective and glowing paint students will learn and nore about remarkable animals that glow. During the winter months, rainy dents will light up their learning with these unusual tools and supplies. e standards require that students understand landforms and habitats. With t only will students gain knowledge of these but also go deeper into ng adaptations and environments of these little known animals.			
	and Concept Development: Identify simple multiple-meaning words.			
	eatures of Informational Materials: Use titles, tables of contents, and chapter headings to locate in expository text. 4			
	in expository text. 4 sion and Analysis of Grade-Level-Appropriate Text: State the purpose in reading (i.e., tell what			
information is se				
	sion and Analysis of Grade-Level-Appropriate Text: Ask clarifying questions about essential			
textual elements	s of exposition (e.g., why, what if, how).			
2.5. Comprehens	sion and Analysis of Grade-Level-Appropriate Text: Restate facts and details in the text to			
clarify and organize ideas.				
2.6. Comprehension and Analysis of Grade-Level-Appropriate Text: Recognize cause-and-effect relationship in				
a text. 2.c. Students know many characteristics of an organism are inherited from the parents. Some characteristics are caused or influenced by the environment. 4.g. Follow oral instructions for a scientific investigation. Next Generation Science Standards				
2-LS-4-1 Make observations of plants and animals to compare the diversity of life in different habitats. <i>Common Core State Standards Connections:</i> <i>ELA/Literacy</i> –				
	articipate in shared research and writing projects (e.g., read a number of books on a single			
W.2.8 R	opic to produce a report; record science observations). (2-LS4-1) lecall information from experiences or gather information from provided sources to answer a uestion.			

Success Evaluation:

a. If this is a new grant, how will you know that the program has been successful?

Jeanie Ritchie Grants - Funded by MPAEF

Children's final research projects (non-fiction writing and art pieces) will display their understanding. (TC rubric can be used to assess abilities.). Students involved in curating the exhibit will also add to success. Although this is not a true PBL unit, it does involve students in not only the gathering of information, writing up their findings, adding visuals and creating a 'space' for others to enjoy their work, they are involved from beginning to end in their learning. Our "Gruesome and Glorious Glowing" Exhibit will be the culminating event of the unit: Our writing celebration!

b. If this is a repeat grant request, attach last year's completed evaluation form. PLEASE NOTE: REPEAT APPLICATIONS WILL NOT BE CONSIDERED WITHOUT AN EVALUATION.

c. If this is your 3rd year of funding, what steps are you taking to obtain funding from other sources? Funding from Jeanie Ritchie ends at year four.

Detailed Budget: Include all expenses, e.g., sales tax, shipping, etc. If any materials can be re-used in future years, please indicate this in the information provided.

13.00*

Black lights Link	4@ 71.00	284.00*
Glow paint Link	8@ 24.00	184.00
Glow Sticks (144) Link	0	14.00
Neon copy paper Link	4@ 21.00	84.00
Glow Tape Link	4@ 14.00	56.00
Glow Tape large Link	-	54.00
Glow Cups Link	4@ 23.00	92.00
Neon Highlighters Link	4@ 16.00	64.00*
Model Magic Link	2 @ 32.00	64.00
Books:		
Jellyfish That Glow		17.00*
Extreme Life of the Sea		18.00*
Curious Creatures That Glow		16.00*
Way To Glow		12.00*
Creatures That Glow		7.00*
National Geographic Animals That Glow		5.00*
Glow in the Dark Creatures		12.00*
Glow Down Deep		15.00*
Nature and Science at Work: Bioluminescence		15.00*

(Other titles are available in our library. Additional titles can be read on Epic and RAZ Kids.)

Octopuses and Squid (Lights On! Animals That Glow)

Black and white paper: donated by a parent

total cost	\$ 1,026.00
tax and shipping	123.12
Total	\$1,149.12

*Asterisk indicates that the item will be used next year. Books shared between 4 classes.

* Currently there is no limit on the amount a grant application can request; however, any application requesting \$3000+ is expected to reach a large number of students and should include ample description and explanation of finances.

Final applications must be emailed to jeanieritchiegrants@mpaef.org as Google Docs with a clear subject line.

Any questions or comments? Please reach out to us at Jeanieritchiegrants@mpaef.org.

Thank you for submitting a Jeanie Ritchie Grant Application!