

## GAGLARDI ACADEMY SCIENCE FAIR/EXPO 2022

### WHAT IS IT?

The Science Fair/Expo is our opportunity to celebrate the wonders and mysteries of God's incredible world, investigating a topic within the scientific realm.



### WHO CAN PARTICIPATE?

Everyone in Gr. K-10 is expected to participate in either the Science Expo or the Science Fair! Gr. 8-10 — please speak with Miss Baldwin about this. Grade 8 students will be participating as a part of their science class. Grade 9 and 10 involvement is optional and will be supported by Miss Baldwin, if students choose to participate. Students in Gr. K-5 will be participating in the Science Expo under the direction of the classroom teacher. Students in Gr.5 and higher will complete independent projects and will participate in the Science Fair.

The **SCIENCE EXPO** is a showcase opportunity to investigate a topic and present your findings to others. It is **NOT** competitive. It is for all students in Gr. K-10. As mentioned above, students in Gr. K-4 will prepare a theme under the classroom teacher's direction. Gr. 5 and higher will prepare a self-directed project. (High School students should check in with their Science teacher about this.)

The **SCIENCE FAIR** is a competition in which students use the *Scientific Method* to ask a question, develop a hypothesis, conduct an experiment, make observations, and then draw conclusions that address whether their original hypothesis was correct or incorrect. Their work will be judged based on the rubric which follows. This is for students in Gr. 5-10. Students may work individually or with a partner. Please talk to your teacher to approve partnerships within and between classes.

### WHEN?

The Science Expo/Science Fair will be held during the afternoon on Wednesday, May 18, 2022. There will be an early dismissal for K-7 at 2:30 pm for parents to tour the classroom and gym displays! Please make sure to pick your child up **in** their classroom at 2:30 pm.

### WHERE?

Student exhibits will be displayed in the gym, class exhibits will be displayed in their classroom.

## SCIENCE FAIR/EXPO 2022 JUDGING RUBRIC

Criteria	NOT APPLICABLE (0)	EMERGING (2-1)	DEVELOPING (3)	PROFICIENT (4)	EXTENDING (5)	TOTAL
<b>Originality of Question</b>	No originality	Embellish an existing idea	Unique perspective on a traditional project	Originality of approach, handling of materials, or very good use of materials	Original research; unique question Ingenious use of resources and materials	
<b>Hypothesis</b>	Absent	Major flaws Hypothesis unclear	Partially developed	Sufficiently developed	Thoroughly developed: "I think ____ because..."	
<b>Procedure/ Organization</b>	No use of the Scientific Method* OR erroneous sequence of the Scientific Method; little to no observations or data collection shown.	Difficult to follow due to lapses in the Scientific Method*. Minimal or poor effort in using the Scientific Method. Few or vague observations and data collection	Somewhat difficult to follow because of lapses in the Scientific Method*. Minimal documentation of observation and data collections. Meaning is not always clear.	Easy to follow sequence of the Scientific Method*. Sequence captures and exhibits observations, data collections, and changes to the project in moderate detail. Meaning is clear.	Easy to follow sequence of the Scientific Method*. Sequence captures and exhibits all observations, data collection, and changes to the project. Discloses whether a control was used or not. Meaning is very clear.	
<b>Analysis</b>	No data presented.	Data is presented by there is no relationship to hypothesis/ question. Phrasing is not clear and often hinders understanding of meaning.	Data is minimally presented and shows some relationship to hypothesis/ question. Phrasing is not always clear and may hinder understanding of meaning.	Data is clearly presented and directly relates to hypothesis/ question. Phrasing is well stated and meaning is clear.	Data presents deeper inferences based on observations and analyses. Phrasing is direct, clear, and without ambiguity..	
<b>Evaluation/ Conclusion</b>	No conclusion presented.	The conclusion drawn is not shown to relate to the data collected.	A fairly reasonable conclusion has been drawn from the data collected.	A logical conclusion has been drawn from the data collected.	A logical conclusion has been drawn from the data collected and answers the hypothesis/ question. Has a real-world application.	
<b>Presentation</b>	No clearly presented data, numerous typos. Meaning of data & conclusions is unclear. Presentation has very poor "fit & finish" with untidy writing, colouring, etc.	Poor organization of data, and/or text/graphs/charts Presentation is not neat and has rips, tears, wrinkles and has many typos that hinder understanding most of the time	Average organization of the data and use of text/charts/graphs but no outstanding features Presentation is fairly neat but has rips, tears, wrinkles and a number of typos that do not hinder understanding	Very good organization of data — clear, good use of text & charts/graphs Presentation is neat (no rips, tears, wrinkles, bent corners, etc.); use of a straight edge/ruler Information is neatly printed or typed; few or no typos	Exceptionally well organized & eye-catching data with clear/accurate use of the text & charts/graphs Presentation is neat (no rips, tears, wrinkles, bent corners, etc.); use of a straight edge/ruler Information is neatly printed or typed with no typographical errors	
<b>SCORE</b>						<b>/30</b>
<b>Feedback/ Comments</b>						
<i>*Scientific Method: question, hypothesis, investigation/testing, analysis, and evaluation/conclusion</i>						