STEM + Art STEAM

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2021 SCHEDULE OF EVENTS

Tuesday, May 11	midnight	Entry Forms Due & Deadline to Upload Online Entries
Tuesday, May 25	2:00-8:00 pm	Entries Received
Wednesday, May 26	2:00-8:00 pm	Entries Received
Sunday, June 13	8:00-10:00 pm	Entries Released
Monday, June 14	8am-12pm	Entries Released (all entries left after noon will be disposed of. We will not hold entries for later pick up)

Department Code: ST   *Entry Fees: $3.00 per entry*   ***NO MAXIMUM ENTRY FEE***

Please note that some divisions have online entries required and will require uploading documentation. See below for rules.

DEPARTMENT RULES:
1. All state rules and local rules apply.
2. All entries must have been completed by the exhibitor within two years of the opening date of the Fair. Any item(s) determined to have been entered in any previous year's Fair will not be eligible for judging or awards.
3. Exhibitor's age on entries is as of opening day of this year's San Mateo County Fair.
4. If a contest division requires online entry submission, that portion of the entry must be uploaded by midnight on Tuesday, May 11, 2021. **There are NO late entry options for any contest division that requires online submission.**
5. See division rules for submission method and limits on dimensions.
6. All entries must be secure and stable for display on a flat horizontal or vertical surface. Multiple or fragile components should be securely attached or mounted onto a base.
7. Stained, soiled, unsanitary, unsafe or objectionable entries will not be judged or displayed.
8. If an entry is larger than 2 feet in any direction, heavier than 10 lbs., or requires special mounting/displaying considerations, the exhibitor must notify the Department Coordinator one week prior to Entry Receiving date, or the entry may be refused.
9. Exhibitors retain rights to their entries (videos, apps, game level designs, etc.). By entering, exhibitors agree that entries will be displayed publicly and may be used for publicity purposes at the discretion of Fair Management.
10. Exhibitors may not use copyrighted material without consent and credit. Using original or royalty-free material is advised.
11. If the entry is an installation, i.e., permanent or not removable, a photographic display no larger than 2' by 3' may be submitted in addition to other division requirements. Include the location of the object for verification.

AWARDS:
1. The American system of judging is used unless otherwise noted.
2. If there is only one entry in a class, the item may be moved to another class.
3. Although there is no limit on the number of entries per person, per state rules, no exhibitor shall receive more than two cash awards in any one class. When an exhibitor earns more than two awards in a class, the exhibitor will receive the two highest cash awards.
4. Judging will consider the following factors: workmanship/execution, documentation and educational/inspirational value, creativity, and complexity. See division rules for further factors that may be considered.

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NOTES FOR ONLINE ENTRY PROCESS:
1. Video entries must be uploaded to YouTube and the link to that video submitted via the San Mateo County Fair online entry process (www.sanmateocountyfair.com). Exhibitors who do not wish their video entry to be publicly viewable on YouTube may mark them as "unlisted" on YouTube (see "Change the privacy settings for your video," https://support.google.com/youtube/answer/157177?hl=en). Exhibitors who would like to provide access for county fair visitors to view videos on their own devices are encouraged to display the link (or QR code) on the documentation portion of their entry. Please note that although exhibitors may choose to mark video as "unlisted," all portions of contest entries may be displayed for Fair purposes.
2. Some divisions require or allow submissions of video captured live from a computer to allow judges and fairgoers to better understand the entries. Exhibitors may decide the method of capture. One method is to use built-in software on Windows 10 and Mac.
3. Note that many of the divisions requiring online entry also require documentation that is displayable for judging and audience viewing. **This documentation must be submitted in pdf format via the San Mateo County Fair online entry process.** See department and division rules for requirements and limits on dimensions.

SCIENCE

AWARDS OFFERED DIVISION 052
1ST Place $50
2nd Place $35
3rd Place $20

DIVISION 052 - SCIENCE EXPERIMENT
Conduct an experiment! The experiment should be presented through the steps of the scientific method and include the following: a question, research, hypothesis, experiment, observation, and results/conclusion. School science fair projects are eligible.

RULES:
1. Display board must be the standard science fair size of 48"x36" or smaller.
2. Must include the experiment name/title and each step of the scientific method clearly labelled.
3. Display must be suitable for transport from Entry Receiving to display area and be appropriate for display throughout the fair (for example: loose parts, food or plant materials, liquids, etc. should be represented by photographs instead).
4. Submit project at Entry Receiving.

CLASS:
1. Life Science (Biochemistry, Molecular Biology, Mammalian Biology, Microbiology, Plant Biology, Zoology)
2. Physical Science (Chemistry, Physics, Astronomy, Alternative Energy, Mechanics & Structures, Electronics & Electromagnetics)
3. Environmental Science (Earth Science, Environmental Engineering, Toxicology)
4. Behavioral Science (Behavioral, Social, Cognitive)

TECHNOLOGY

AWARDS OFFERED DIVISION 053 - 055
1st Place $50
2nd Place $35
3rd Place $20

DIVISION 053 – SOFTWARE DEVELOPEMENT
Create an application or game.
RULES:
1. The application or game must be playable/useable on an iOS or Android device.
2. The application or game must be available through the Google Play Store, iTunes or an accessible website by the deadline to upload online entries. It must be free to download.
3. Submit documentation in pdf format through the online entry process. Include a brief description of the application, its format, where/how it can be downloaded, and at least one screenshot. Documentation must be no larger than two sheets of 8 ½" x 11" paper.

CLASS:
1. Drag and Drop Language for Youth (up to age 12) (Scratch, Snap, etc.)
2. Game App
3. Utility App

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DIVISION 054 - WEB DEVELOPMENT

Use HTML, CSS and JavaScript to create a web page. Design a single web page (not a multi-page site) on a family-friendly topic of your choosing. For example, create a web page showcasing a favorite hobby, an about or tribute page, or even something informational. Pages can be shared for free of codepen.io or on another hosted site.

RULES:
1. The web page must be complete and ready for judging by the deadline to upload entries
2. The text "San Mateo County Fair 2021" must be either displayed on the page or in an HTML comment.
3. The page must be viewable on a recent version of Chrome.
4. The page must not use any external plugins, e.g., Adobe Flash.
5. Judging will favor pages that are accessible with proper semantic tags.
6. Submit documentation in pdf format through the online entry process. Describe the page and include at least one screenshot (may highlight only a part of the web page) and a QR code for the page URL (at least 2" square). Documentation must be no larger than two sheets of 8 ½' x 11" paper.

CLASS:
1. Web Page (Emphasis on HTML structure and CSS styling)
2. Web Page with Widget (Emphasis on JaveScript programming)

DIVISION 055 - FILM AND VIDEO PRODUCTION

Produce a short film or video. Your film or video can be a comedy, drama, horror, animation, documentary, educational, or tutorial as long as it's family-friendly and suitable to be displayed during the fair.

RULES:
1. All entries must be submitted as a link to a YouTube video through the online entry process. See Department Rules and Notes for Online Entries. Entries shot on film must be digitized.
2. Video must not be longer than 10 minutes.
3. Submit documentation in pdf format through the online entry process. Include the film/video title, genre, a brief summary or description (a few sentences) and at least one screenshot. Documentation must be no larger than two sheets of 8 ½" x 11" paper.
4. Copyrighted material used without permission or outside of fair use is strictly prohibited. Video end credits or description must include licensing information if copyrighted material is used.

CLASS:
1. Film or Video

ENGINEERING

AWARDS OFFERED DIVISIONS 058 - 059
1st Place $50
2nd Place $35
3rd Place $20

DIVISION 058 - CONSTRUCTION TOY SYSTEMS

What amazing things can you build using a "toy" construction system? Construction toy systems such as LEGO and K'Nex provide an accessible and fun way to build anything you can think of from mythical creatures to prototypes or useful objects. Any commercially available construction toy system elements are eligible.

RULES:
1. Model must be an original design. Commercial sets or purchased building instructions are not allowed.
2. Model must be built entirely from unmodified construction toy elements. Elements from different systems may be combined.
3. Model must be sturdy enough for transport from Entry Receiving to display area and to last the duration of the fair. Loose parts will not be reconnected. If an entry is larger than 2 feet in any direction, heavier than 10 lbs., or requires special mounting/displaying considerations, the exhibitor must notify the Department Coordinator by one-week prior to Entry Receiving date, or the entry may be refused.
4. Exhibitor must deliver model at Entry Receiving (for date and time see Schedule of Events above) and include display information with the model title/name and a brief description. Use no more than two sheets of 8 ½" x 11" paper.

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CLASS:
1. Art (Mosaics, Sculptures)
2. Buildings (Architecture, Famous Sites)
3. Mechanical/Motorized (Automaton, Kinetic Art, Robotics)
4. Utility/Functional (Models built to provide useful function (such as a phone stand) or solve a problem)
5. Vehicles (Boats, Cars, Spacecraft, Trains, Trucks)
6. Other (Anything not covered in Classes 1-4)

DIVISION 059 - DIY & INDUSTRIAL PROJECTS

Enter a do-it-yourself or industrial arts project in any of the listed classes.

RULES:
1. In addition to the project, exhibitors must submit documentation including a description and the methods and tools that were used to create it. Plans, sketches and photos (before, in-process and after) are encouraged and will positively impact judging. Use no more than two sheets of 8 ½" x 11" paper.
2. If an entry is larger than 2 feet in any direction, heavier than 10 lbs., or requires special mounting/displaying considerations, the exhibitor must notify the Department Coordinator by one-week prior to Entry Receiving date, or the entry may be refused.
3. If the entry is an installation, a photographic display mounted on poster of foam board no larger than 2' by 3' must be submitted at Entry Receiving. The documentation required in rule 1 may be included in the 2' x 3' display or may be added page(s). Include the location of the object for verification.

CLASS:
1. Youth (up to age 12) Metalworking
2. Youth (up to age 12) Woodworking
3. Youth (up to age 12) Other
4. Adult (ages 13 & up) Metalworking
5. Adult (ages 13 & up) Woodworking
6. Adult (ages 13 & up) Other

ART & MAKING

AWARDS OFFERED DIVISIONS 060 - 061
1st Place $20
2nd Place $15
3rd Place $10

DIVISION 060 - SELFIES

Take creative selfie with a handheld digital device such as a cellphone or tablet in front of a recognizable San Mateo County site.

RULES:
1. You should be the only person in the selfie.
2. The maximum size of the selfie is 5" x 7".
3. Mount the selfie on stiff paper, poster board or use a mat. The border may be up to 1" wide. DO NOT FRAME.
4. Include written documentation of the picture title, explanation of your inspiration or technique, and name or location of the San Mateo County site. Documentation may be written within the picture border or included on an additional card or paper not exceeding 8 ½' x 11".

CLASS:
1. Youth (up to age 13)
2. Youth (ages 14 - 18)
3. Adult (ages 19 & up)

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DIVISION 061 – UPCYCLING

Showcase the upcycling of an item (can be multiples of the same item) or a combination of items in a creative way that is different from the intended primary use of the item(s), but still functional. For example, cutting out the middle of an old book and using it as a secret storage box or a wind chime made from a variety of found objects.

RULES:
1. At least 90% of the materials used to make the new item must be things that were previously used, or found.
2. Materials like glue, nails, or other means of attaching items will count toward the allowable 10% new materials.
3. Each entry must be accompanied by a brief description of what the new item is and how it functions, or visual documentation of it functioning. Use no more than two sheets of 8½" by 11" recycled paper for description and photos, displayable for judging and audience viewing.

CLASS:
1. Single Item Wearable (Clothing, Jewelry, Accessories)
2. Single Item Household Object (Furniture, Foodware, Planters, Bookends, etc.)
3. Single Item Art (Mosaics, Sculptures, Kinetic Art, etc.)
4. Other Single Item Reuse (Anything not covered in Classes 1-3)
5. Combined Item Wearable (Clothing, Jewelry, Accessories)
6. Combined Item Household Object (Furniture, Foodware, Planters, Bookends, etc.)
7. Combined Item Art (Mosaics, Sculptures, Kinetic Art, etc.)
8. Other Combined Item Reuse (Anything not covered in Classes 5-7)

DIVISION 062 - FABMO CHALLENGE
Sponsor: **FabMo**
www.fabmo.org

AWARDS OFFERED DIVISION 062

1st Place	$25*	Rosette
2nd Place	$20*	
3rd Place	$15*	
FabMo's Choice	$25*	

*Winners will also receive a certificate to fill one bagful of goodies from a FabMo Selection Event (Please see www.Fabmo.org)

Showcase the quality and variety of designer materials available for creative reuse from FabMo, a local nonprofit, which annually diverts 70 tons of exquisite materials from their otherwise destination, the landfill.

Create something new by repurposing items in the FabMo Challenge Kit provided to each entrant. (You do not need to use every item in the Challenge Kit, but the majority of your creation should be made from those items.) Your creation can be something decorative, artistic, and/or functional.

Your FabMo Challenge Kit will be available for pick-up at the Fair Office. Please bring a copy of your entry receipt. _**This division is limited to the first 8 entries.**_

RULES:
1. At least 75% of your entry must be made using things found in the FabMo Challenge Kit.
2. No more than 25% of entry contents may be added, including glue, tape, wire, string, thread, or other materials.
3. Each entry must be accompanied by a brief description of what the entry is and the design process or inspiration. You must include photos of the items in the kit before creating your entry. You are encouraged to include photos taken "in-process." Use no more than two sheets of 8 1/2" x 11" recycled paper for this description and photos, displayable for judging and audience viewing.
4. In addition to judging factors mentioned in Sustainable Living Awards section, judging will also consider percentage of Challenge Kit used.

CLASS:
1. Children (Age 13 and under)
2. Youth (Ages 14-18)
3. Adult (Age 19 and up)

Rescuing Designer Materials
for Creative Reuse

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