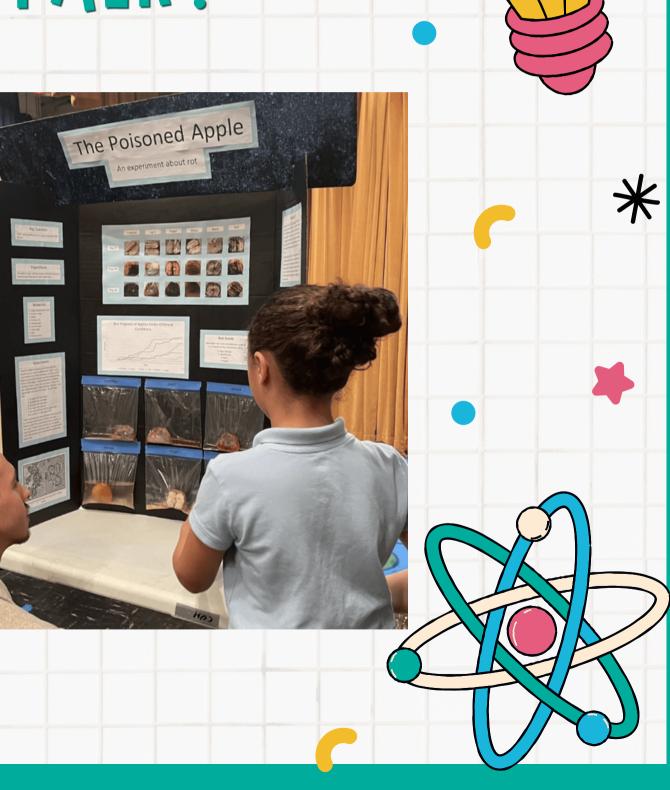
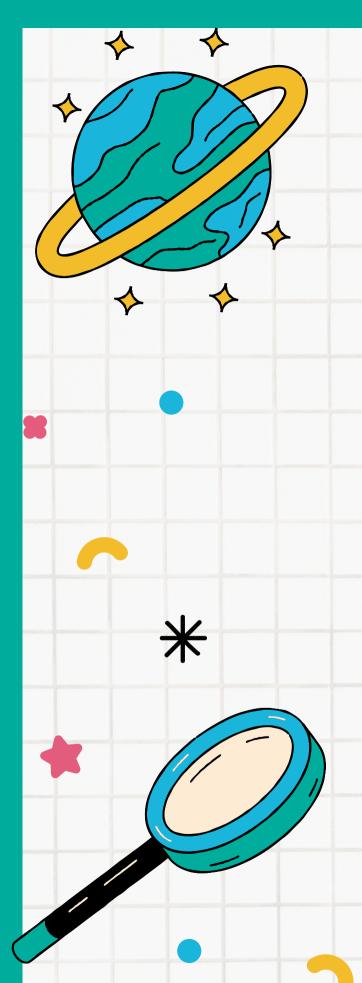


WHAT IS A SCIENCE FAIR?

- Event to promote the scientific inquiry
- Students display boards documenting
 - their experiment

- Attendance open to students, parents,
 - teachers and Guadalupe community
- Volunteer run
- Goal: Have fun and promote science



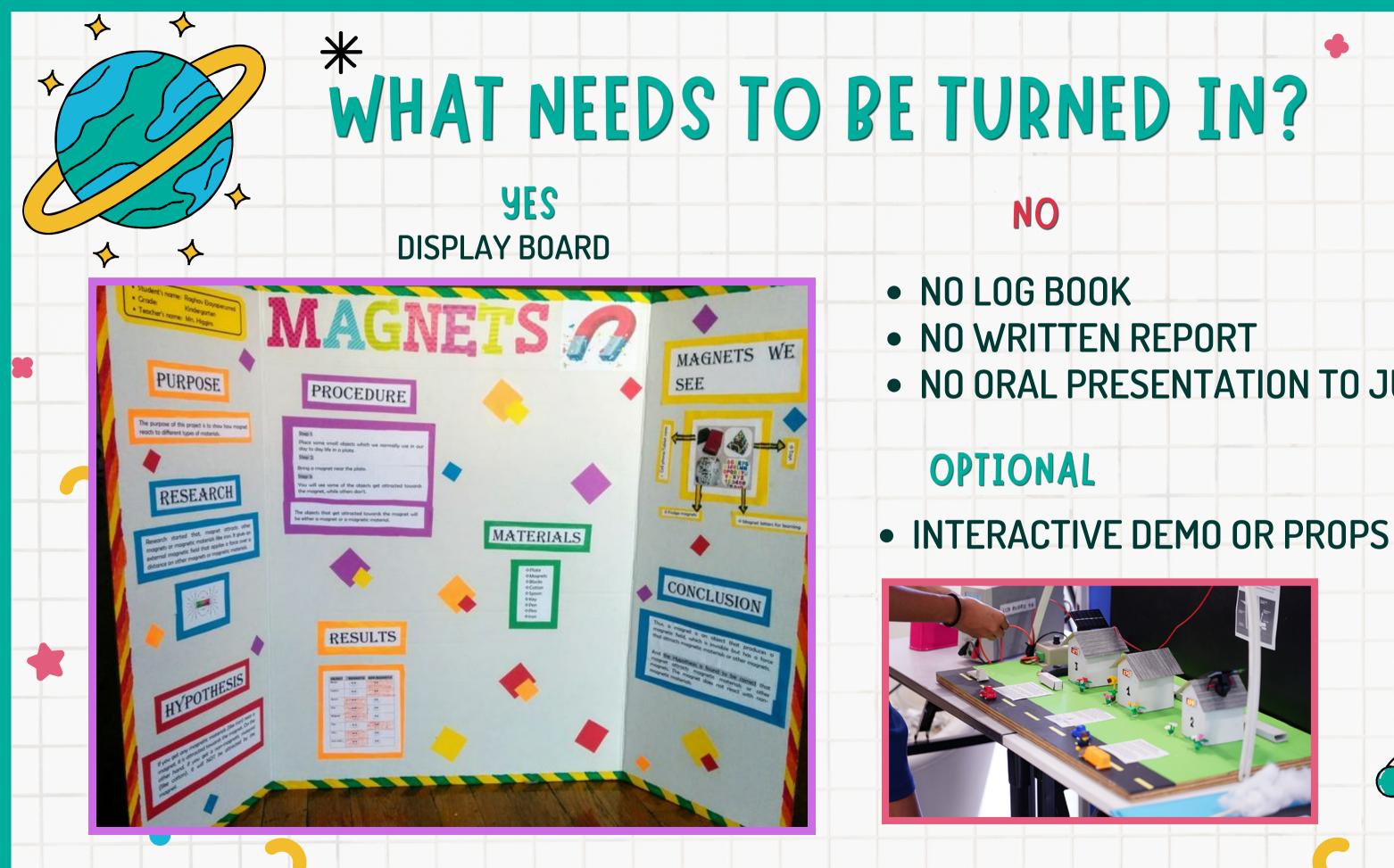


IMPORTANT FACTS

- Open K-5 students
- No entrance fee

- Materials provided by parents
- Students work individually
- Students will have 6 weeks to choose a category/topic
- Students will have 7 weeks to work on their project
- Work done outside of school hours (not part of school curriculum)
- Parent help needed
- Notable projects will receive awards
- Participation not mandatory



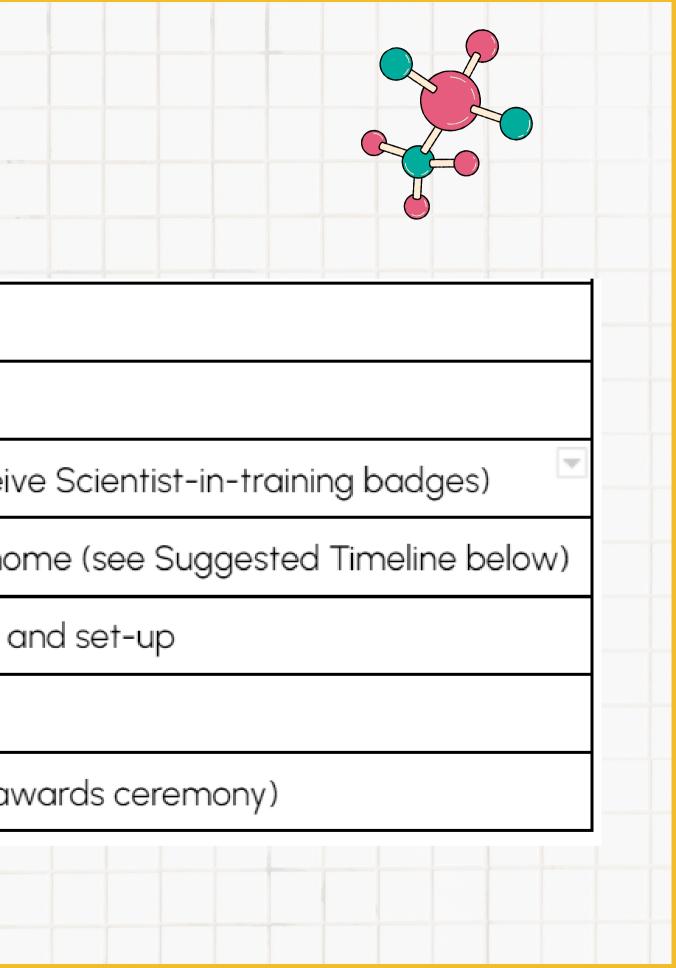


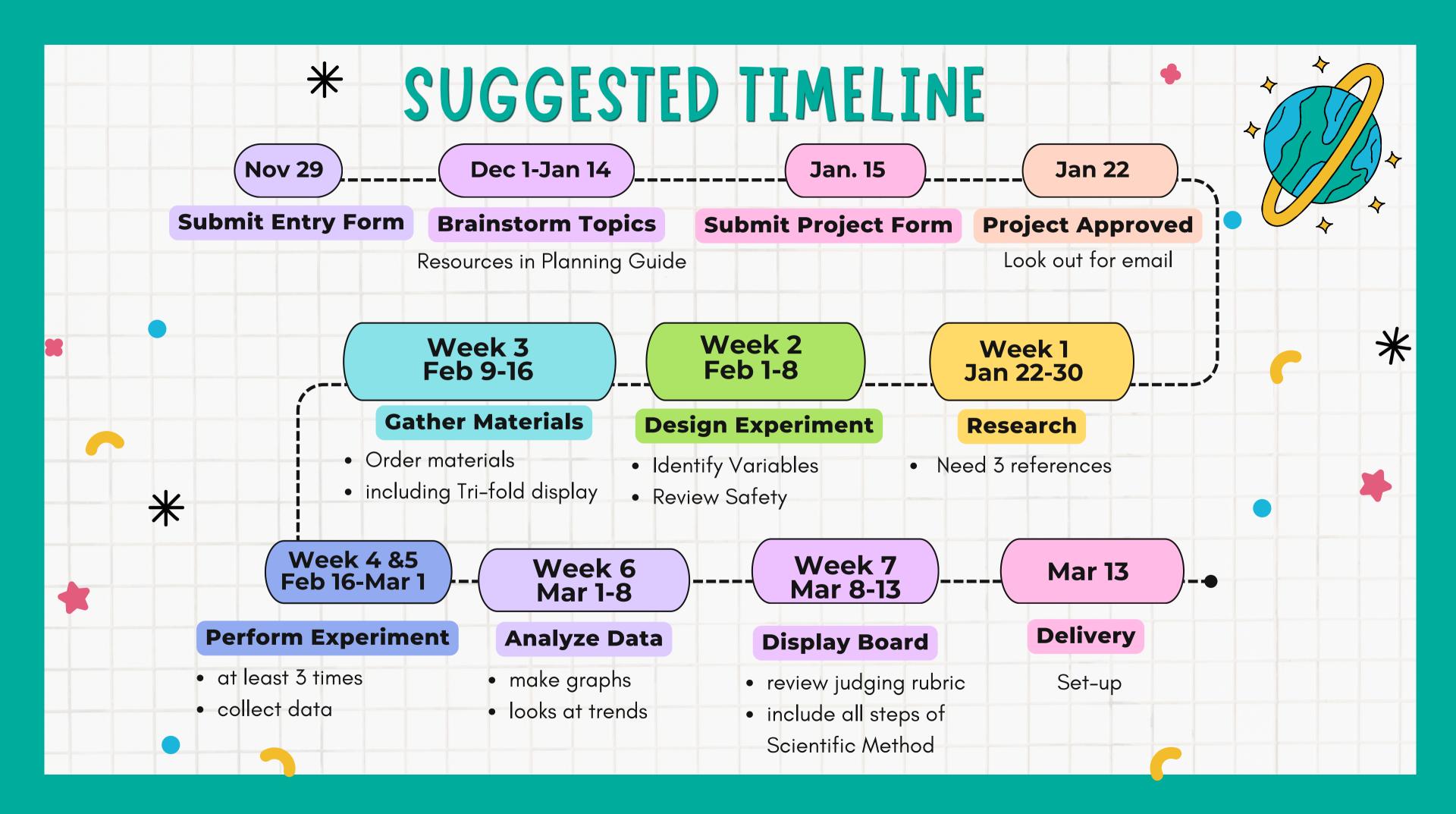
- NO ORAL PRESENTATION TO JUDGE

KEY DATES

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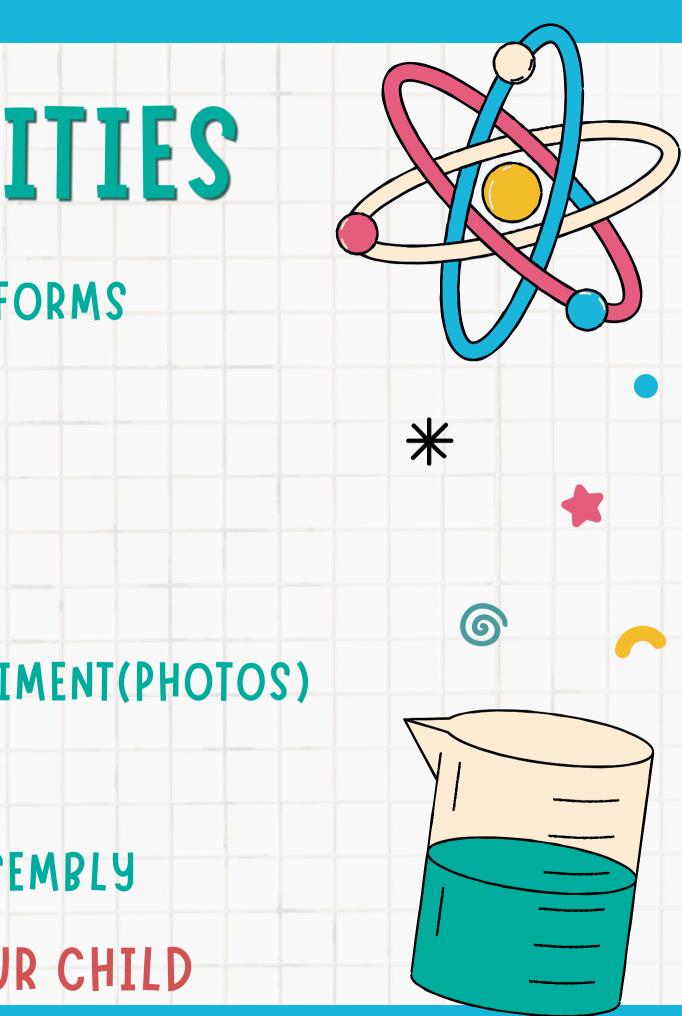
Nov 29	Submit Science Fair Participation Form
Jan 15	Submit Science Fair Project Form
Jan 22	Project Forms approved (students receiv
Jan 23-Mar 12	Students work on science projects at ho
March 13	Students turn in tri-fold display boards o
March 14	Projects are judged
March 14	Science Fair (community viewing and av





PARENT RESPONSIBILITIES

- **1. SUBMISSION OF ENTRY AND PROJECT GOOGLE FORMS**
- 2. ENSURE SAFETY RULES ARE FOLLOWED
- **3. GUIDANCE ON PICKING TOPIC**
- 4. HELP WITH RESEARCH
- 5. HELP WITH CONDUCTING/DOCUMENTING EXPERIMENT(PHOTOS)
- **6. STAYING ON SCHEDULE**
- 7. HELP WITH DISPLAY BOARD SET-UP AND DISASSEMBLY
 - - DO NOT DO THE PROJECT FOR YOUR CHILD





• Entry Deadline: Nov. 29 by 5pm

Science Fair Participation Form

• Project Deadline: Jan. 15 by 5pm

Science Fair Project Form

Display boards due: Mar. 13

WHAT'S IN THE PLANNING GUIDE?

LINK: SCIENCE FAIR PLANNING GUIDE

- SCIENCE CATEGORIES: LIFE, PHYSICAL, EARTH
- SAFETY RULES
- HELP CHOOSING A TOPIC/QUESTION
- TYPES OF PROJECTS

• JUDGING RUBRIC

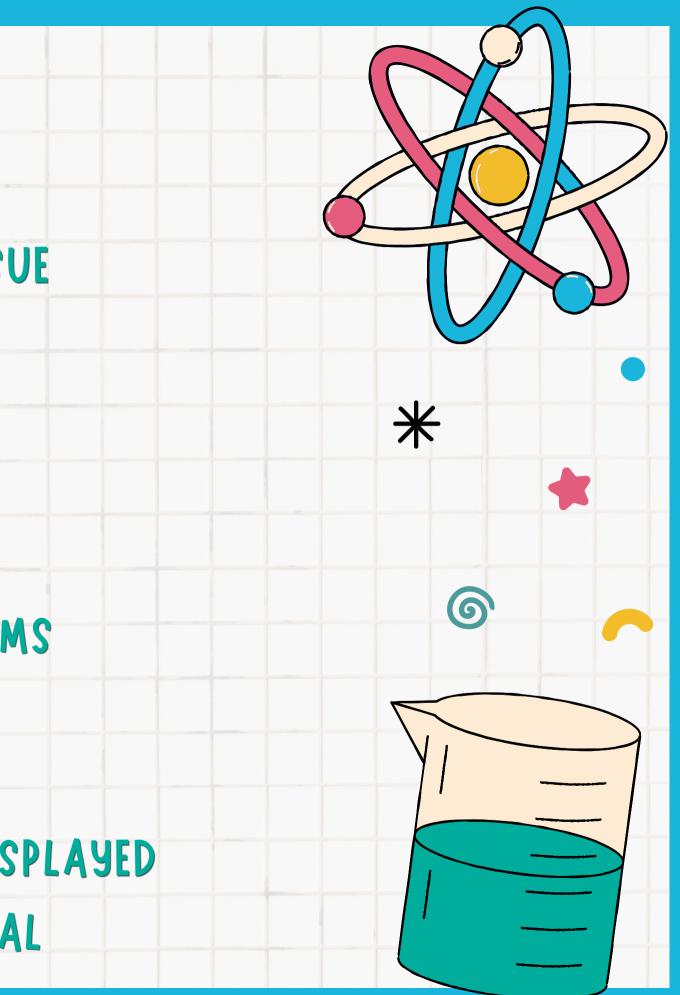
- SCIENTIFIC METHOD WORKSHEET
- PROPOSED WORK TIMELINE
- DISPLAY BOARD GUIDELINES

• LIST OF ONLINE RESOURCES



SAFETY RULES

1. NO EXPERIMENTING ON ANIMALS OR ANIMAL TISSUE 2. ADULTS MUST SUPERVISE EXPERIMENT 3.NO EXPLOSIVES. DRUGS. OR ALCOHOL 4. DO NOT TOUCH/TASTE DANGEROUS CHEMICALS **5. WEAR EYE/EAR PROTECTION 6.NO CULTURING OF DANGEROUS MICRO-ORGANISMS** 7. NO EATING/DRINKING DURING EXPERIMENT **8. DISPOSE OF WASTE PROPERLY 9. KNIVES OR OTHER SHARP OBJECTS MAY NOT BE DISPLAYED 10. USE INTERNET SAFELY AND WITH PARENTS' APPROVAL**



CATEGORIES O1 LIFE SCIENCE

Examples:

- Botany
- Environmental Science
- Nutrition
- Zoology
- Biology

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O2 EARTH & SPACE SCIENCE

⋇

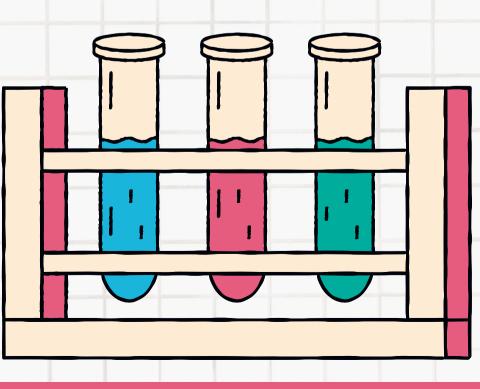
- **Examples**: Geology • Weather Rock Formations • Layers of the Earth • The atmosphere stars

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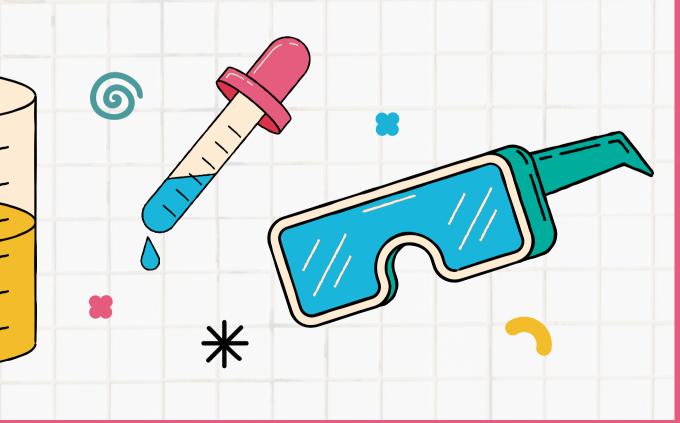
planets/moon

O 3 PHYSICAL SCIENCE

- Chemistry: states of matter, solubility, heat capacity, periodic table, solutions etc.
- Physics: magnetism, electricity, force/motion, properties of matter, sound, light etc.

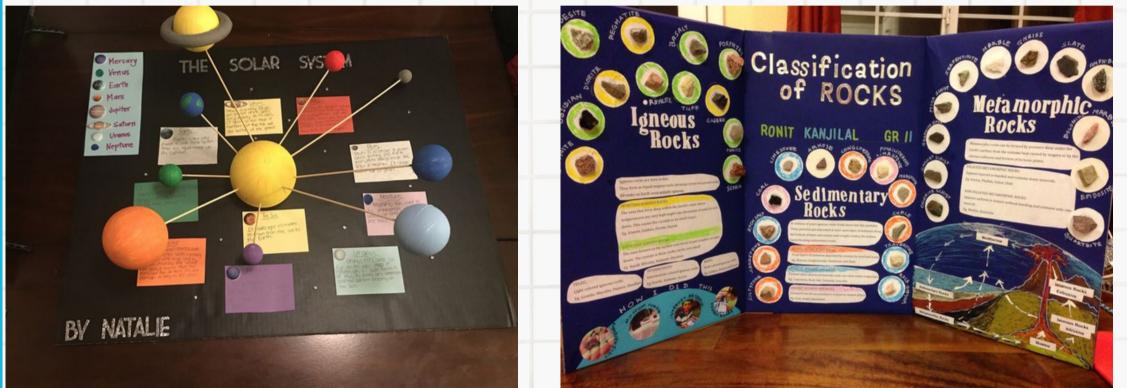


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TYPES OF PROJECTS NOT ALLOWED MODELS COLLECTIONS

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THESE PROJECTS DO NOT TEST ANYTHING

YOUR PROJECT SHOULD BE EXPERIMENT-BASED USING THE SCIENTIFIC METHOD

SCIENTIFIC METHOD

ASK A QUESTION What do you want to learn about?

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RESEARCH

STEP

Learn as much as you can about your topic from books, experts and the internet.

EXPERIMENT

STEP

Gather materials and follow your plan to test your hypothesis. ANALYZE THE RESULTS Write down what happened and record what you

STEP

learned.

FORM A **HYPOTHESIS** Predict what you think will

STEP

happen based on what you already know.

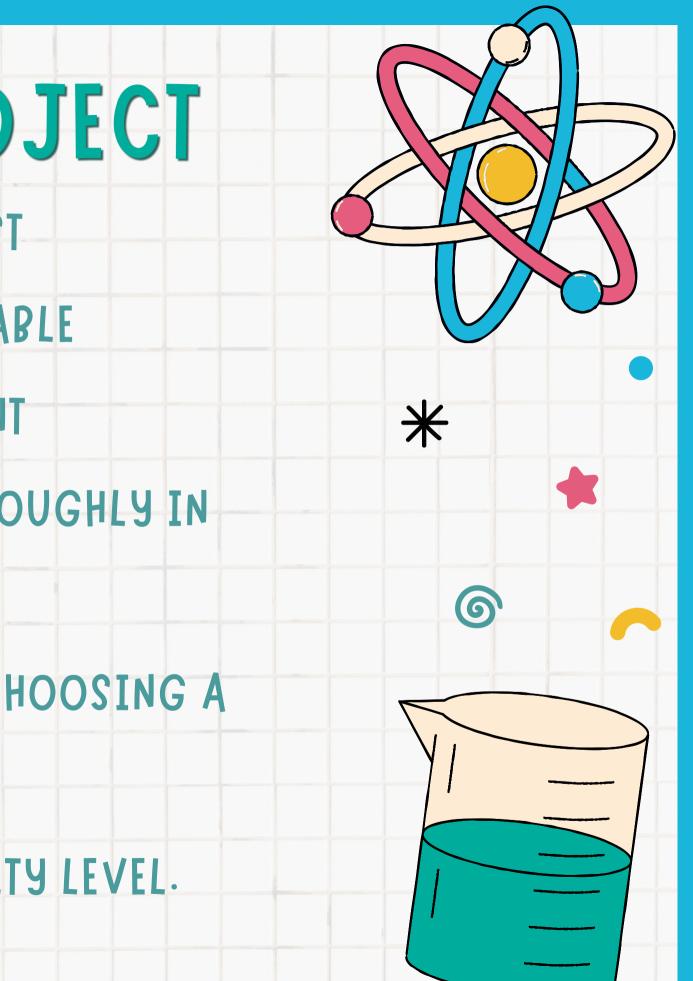
CONCLUSION

STEP

Share your results and if your hypothesis was correct or incorrect, and decide what to do next.

TIPS ON CHOOSING A PROJECT

- ENCOURAGE CHILD TO PICK BASED ON THEIR INTEREST
- CHOOSE A PROJECT WITH A CLEARLY DEFINED. TESTABLE
 - QUESTION THAT CAN BE ANSWERED BY AN EXPERIMENT
- CHOOSE A PROJECT THAT CAN BE RESEARCHED THOROUGHLY IN
 - THE TIME AVAILABLE.
- CONSIDER WHAT MATERIALS ARE AVAILABLE WHEN CHOOSING A
 - **PROJECT**.
- CHOOSE A PROJECT WITH AN APPROPRIATE DIFFICULTY LEVEL.



TESTABLE VS UNTESTABLE QUESTIONS?

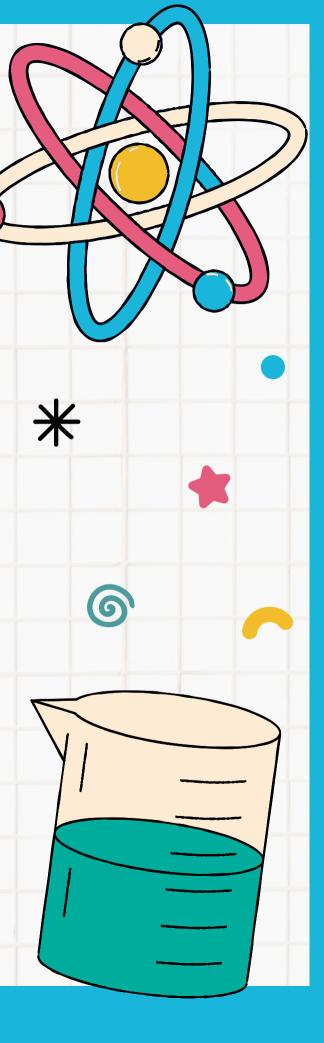
TESTABLE

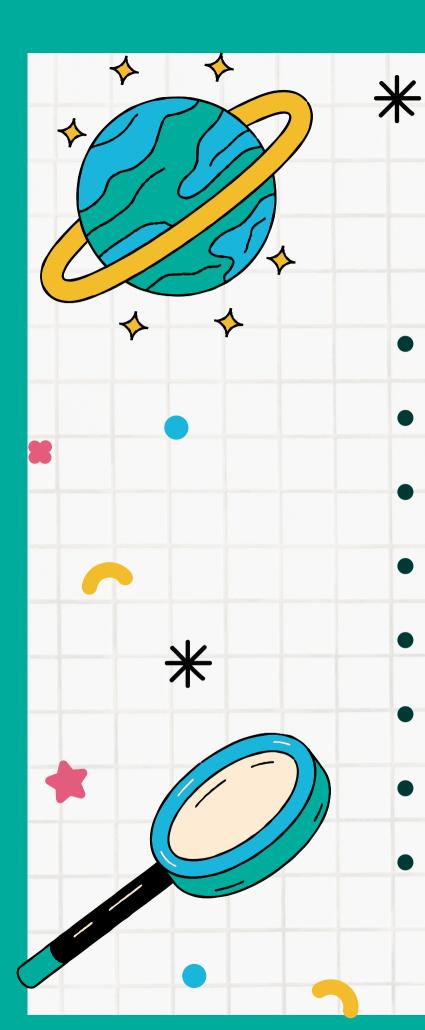
- How well do different materials sink or float in water?
- How does changing the shaped of a rocket's fins change its flight?
- Does temperature have any effect on a magnet's strength?

UNTESTABLE

- What makes something sink or float?
- How do rockets work?
- What makes a magnet attract things?

ter? hange its flight? strength?

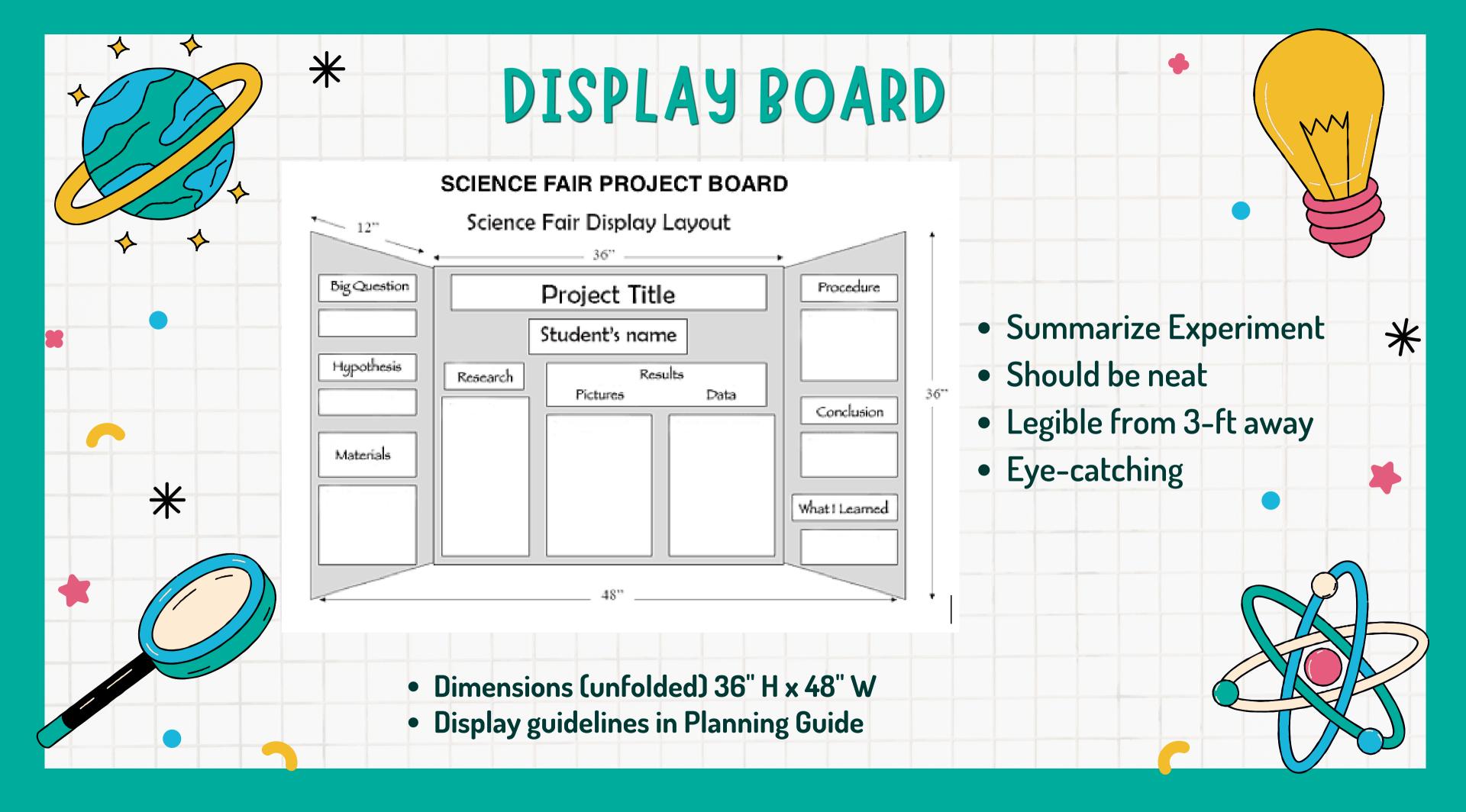


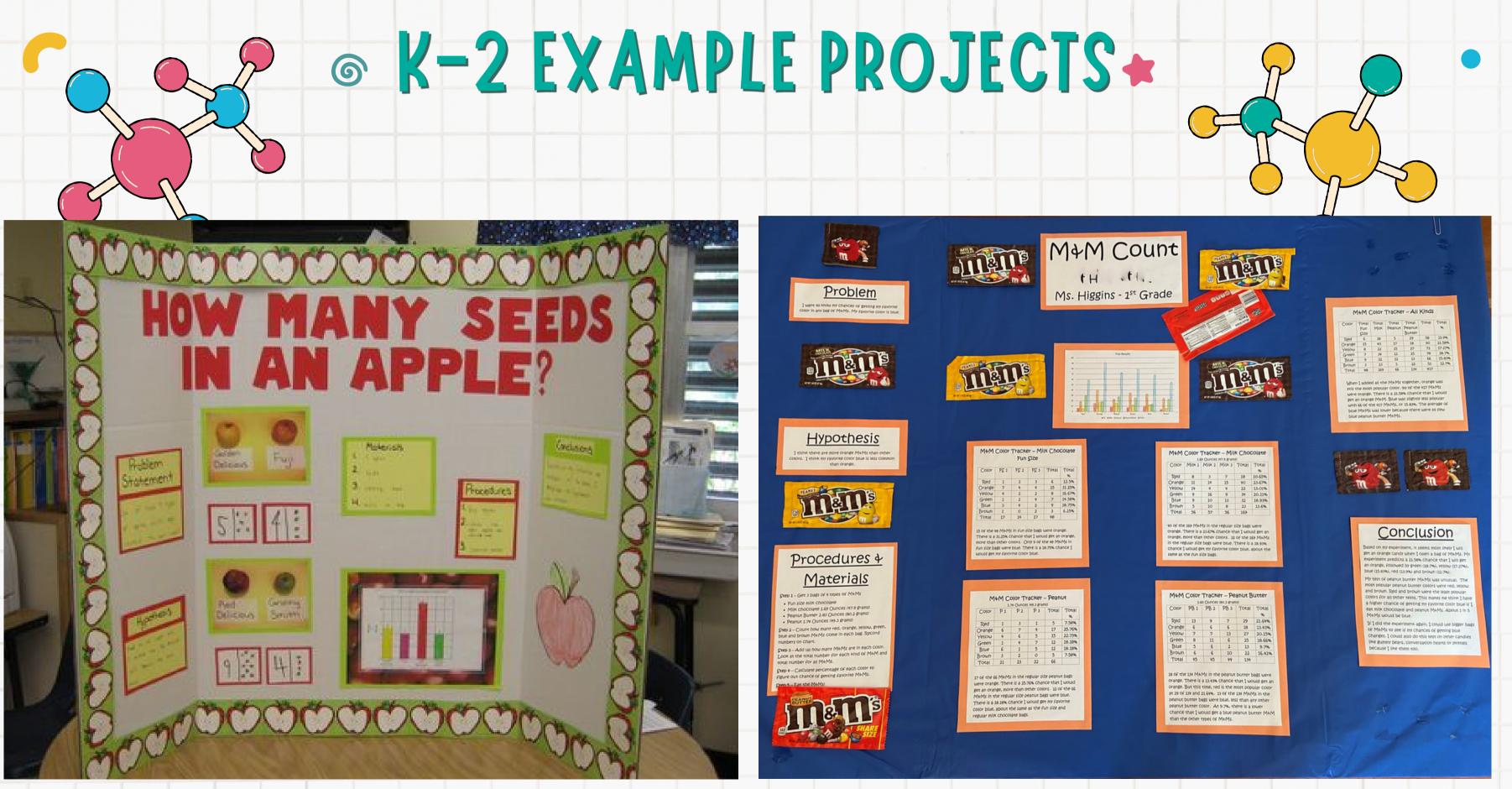


RESOURCES

- <u>Steve Spangler Science</u>
- <u>Science Bob</u>
- <u>Science Buddies</u>
- Mark Rober: Tips for great elementary science fair projects
- Education.com
- Example project display boards:
- <u>Blossom Hill Elementary</u> (K-5 example projects)
- <u>Somers Intermediate School</u> (5th grade example projects)

science fair projects projects) e example projects)





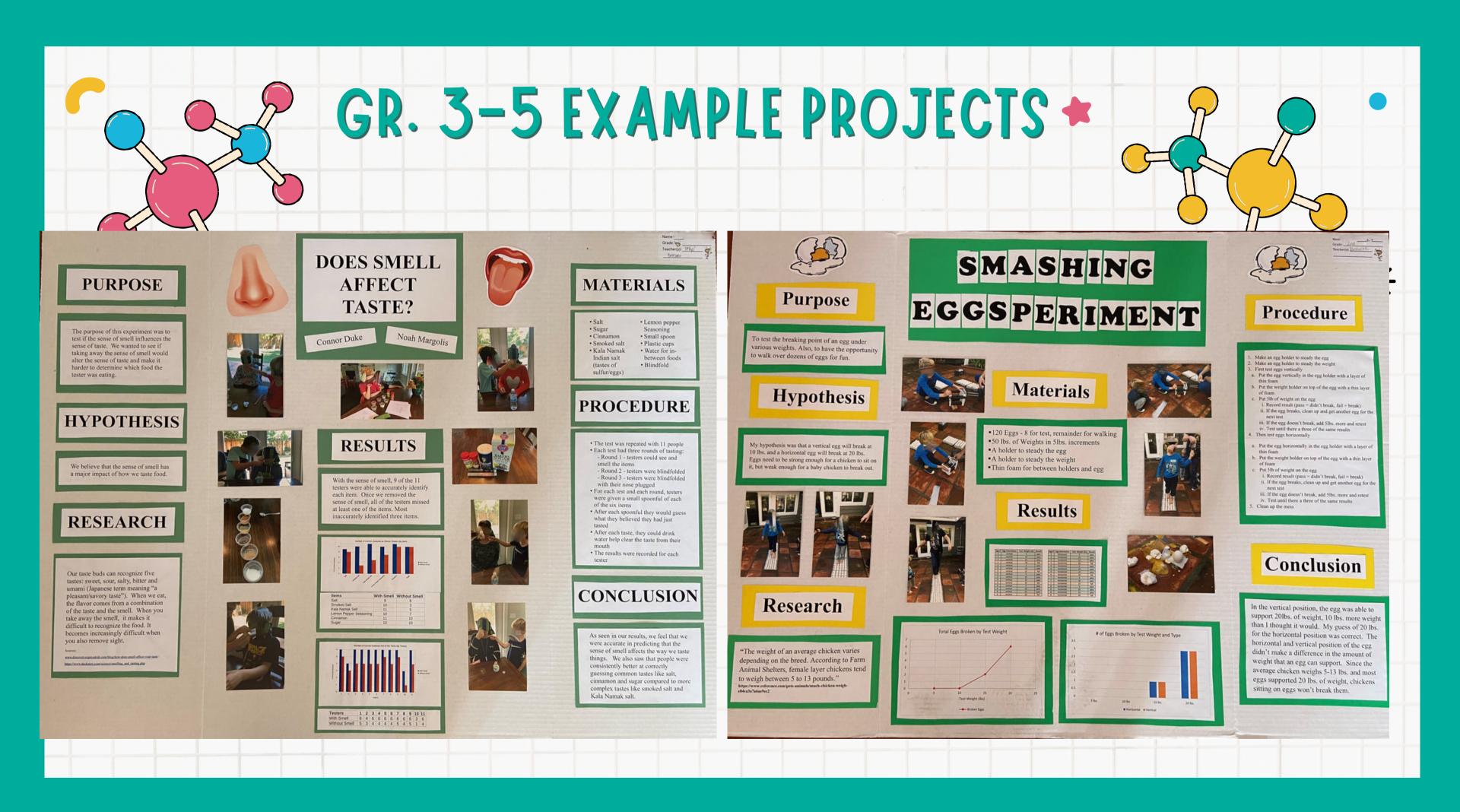
M4M Color Tracker – Milk Chocolate Fun Size						
Color	F5 1	FS 2	F\$ 3	Total	Total %	
Red	1	2	3	6	12.5%	
Orange	7	4	4	15	31.25%	
Yellow	4	2	2		16.67%	
Green	1	2	4	2	29.58%	
Blue	3	4	2	9	18.75%	
Brown	1	0	2	3	6.25%	
Total	27	24	17	98		

		N Ources			
Color	P1	P2	P3	Total	Total
Red	1	3	1	5	7.58%
Orange	6	7	4	27	25.76%
YINIOW	4	6	5	25	22.73%
Green	1	4	7	22	18.38%
Blue	6	1	5	22	28.38%
Brown	3	2	0	5	7.58%
Tintal	22	53	22	44	

Color	Milk 1	Milk 2	Milk 3	Total	Total
Red	8	3	2	18	10.65%
Orange	22	14	25	90	23.67%
Yellow	29	4	9	22	23-01%
Green	9	25	9	39	20.11%
Brue	9	10	13	32	18-93%
Brown	5	10	8	23	13.6%
Total	56	57	56	169	

		B Queces			
Color	PB 1	PB 2	PB 3	Total	Total %
Red	23	9	7	29	21.64%
Orange	6	6	6	18	23.43%
Yesow	7	2	13	27	20.15%
Green	8	11	6	25	18.66%
Blue	5	6	2	13	9.7%
Brown	6	6	10	22	16.92%
Total	05	- 45	44	134	

Cosor	Fun Sube	тока Мік	Total Peanut	Total Peanut Butter	Total	Total
Ded	6	28	5	29	-58	13.9%
Oranier	15	90	17	38	90	21.50%
Yesow		22	13	27	73	27.27%
Green	2	34	13	25	28	38.7%
Bive	9	32	32	15	66	15.83%
Brown	3	23	5	22	53	12.7%
TOTAL	- 45	169	66	1.99	917	



* SET-UP.JUDGING& VIEWING 6 Set-up: March 13, morning

- Drop off and set up your displays in the cafeteria.
- Your project will have a designated space marked by your project form.
- Judging: March 14, morning
 - The judging process is closed to spectators and is done before community viewing
 - Some awards and ribbons will be attached to notable project displays.
- All judging decisions are final. Judging Rubric Google form found in Planning Guide
- **Community Viewing & Awards Ceremony: March 14, evening**
 - Members of Guadalupe community are invited to view the projects
 - Clean up and Take-Down: March 14 after Science Fair
 - Any projects that are not taken home the night of the fair will be discarded.



AWARDS

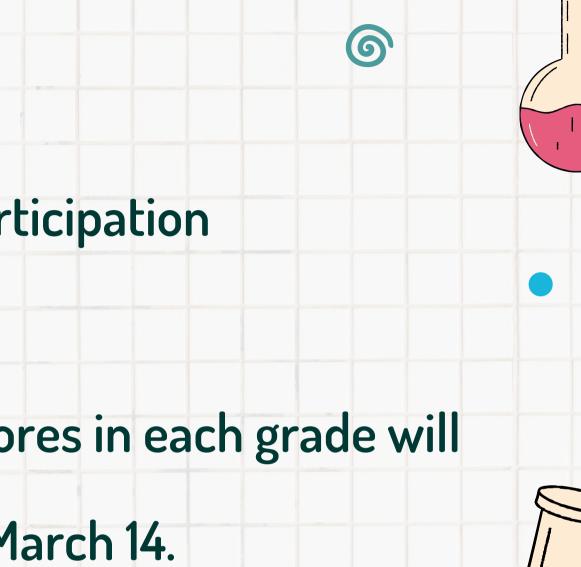
- All students will receive a certificate of participation
- Awards will be given for each grade level.

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- The projects with the top three highest scores in each grade will
 - be announced during the Science Fair on March 14.
- Awards and prizes will consist of gold, silver, and bronze

medallions and award certificates.



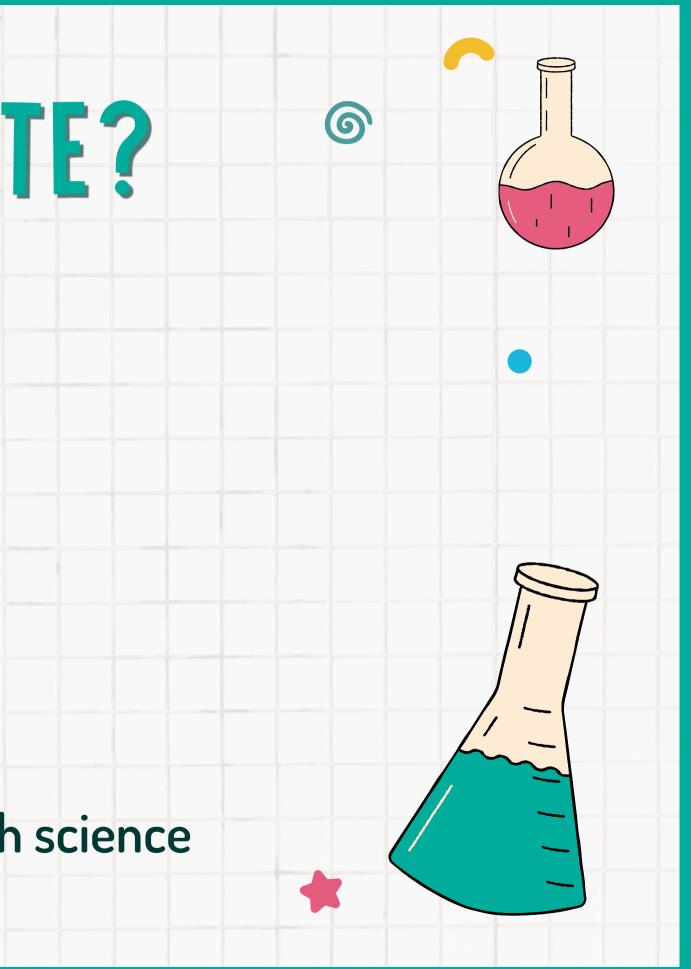
WHY PARTICIPATE?

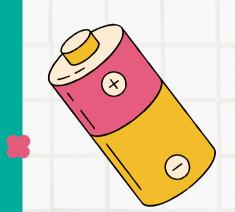
Students learn :

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- practical application of science
- time/resource management skills
- communication skills
- early appreciation for STEM careers
- how to build community and have fun with science





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THANK YOU!

Any questions? Don't hesitate to ask for our help

ScienceFair.GHSC@gmail.com GHSC.net/ScienceFair

