



JUDGES Training

MARCH 2021

SCHEDULE

MARCH 8 - 12: E-PORTFOLIO REVIEWS

MARCH 13: VIRTUAL JUDGING SESSION

8:00 A.M. - 8:30 A.M. → MEETING IN JUDGES ROOM (GATHER.TOWN)

8:30 A.M. - 9:00 A.M. → DISCUSS JUDGING STRATEGY WITH GROUP

9:00 A.M. - 11:00 A.M. → JUDGING

11:00 A.M. - 11:30 A.M. → DELIBERATION

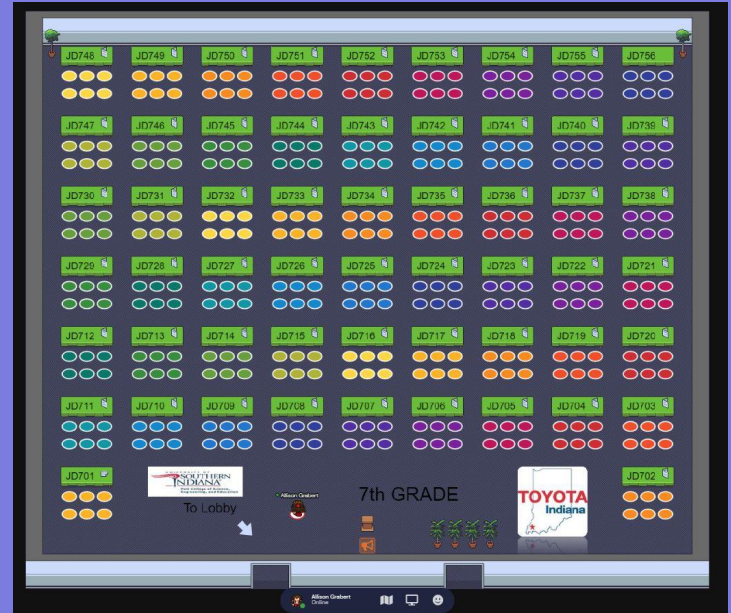
GATHER.TOWN

<https://gather.town/app/TSINL4IQOHT194PT/2021TSEF>

PASSWORD: STEMSTAR

**HEADSET/EARBUDGS IS RECOMMENDED TO PREVENT FEEDBACK NOISE

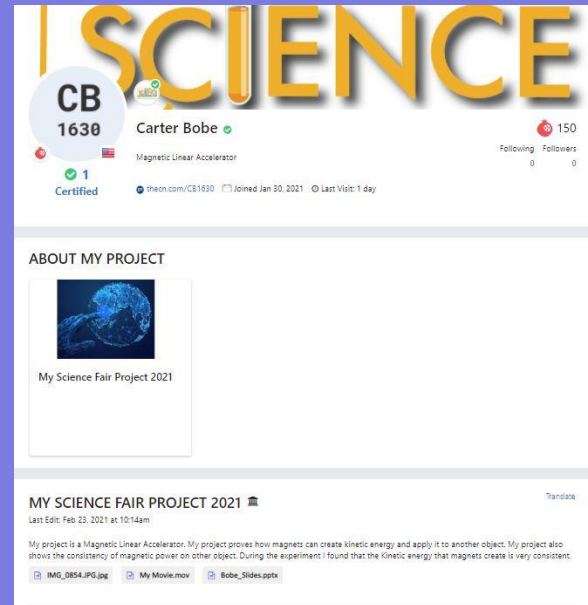
**YOU WILL NEED A COMPUTER WITH A WEBCAM



7TH GRADE PROJECT JUDGING ROOM

E-PORTFOLIOS

- REVIEWED FROM MARCH 8 - 12
- UPLOADS TO CONSIDER WHEN JUDGING
 - A. SLIDEDECK
 - B. VIDEO PRESENTATION
- PROJECT E-PORTFOLIOS LINKS ARE ACCESSIBLE:
 - A. ON THE PROJECT LISTING SPREADSHEET
 - B. AT THE EXHIBITOR BOOTHS (GATHER.TOWN)



The screenshot shows a project page on the Science Buddies website. At the top, the word "SCIENCE" is written in large, bold, orange letters. Below it, the user's profile information is displayed: a circular profile picture with the initials "CB" and the number "1630", the name "Carter Bobe", and the project title "Magnetic Linear Accelerator". There are icons for "Certified" (a green checkmark) and "1" (a green checkmark). To the right, there are statistics: "Following 0" and "Followers 0". Below the profile information, there is a section titled "ABOUT MY PROJECT" with a small image of a blue, glowing sphere and the text "My Science Fair Project 2021". At the bottom, there is a section titled "MY SCIENCE FAIR PROJECT 2021" with a "Translate" button. The text below this section reads: "My project is a Magnetic Linear Accelerator. My project proves how magnets can create kinetic energy, and apply it to another object. My project also shows the consistency of magnetic power on other object. During the experiment I found that the Kinetic energy that magnets create is very consistent." Below the text, there are three file upload icons: "IMG_0854.JPG", "My Movie.mov", and "Bobe_Slides.ppts".

DIVISIONS FOR JUDGING

- GRADES K-5 (ELEMENTARY DIVISION)
- GRADE 6 (JUNIOR DIVISION)
- GRADE 7 (JUNIOR DIVISION)
- GRADE 8 (JUNIOR DIVISION)
- GRADES 9 - 12 (SENIOR DIVISION)



JUDGING SCORE SHEETS

DIGITAL

[HTTPS://USISURVEY.AZ1.QUALTRICS.COM/JFE/FORM/SV_1HREWW8WZ2CVNC](https://usisurvey.az1.qualtrics.com/jfe/form/sv_1hreww8wz2cvnc)

ENGINEERING .PDF VERSION

[HTTPS://WWW.USI.EDU/MEDIA/5625276/JUNIOR-DIVISION-SCIENCE-CANARY.PDF](https://www.usi.edu/media/5625276/junior-division-science-canary.pdf)

SCIENCE .PDF VERSION

[HTTPS://WWW.USI.EDU/MEDIA/5625276/JUNIOR-DIVISION-SCIENCE-CANARY.PDF](https://www.usi.edu/media/5625276/junior-division-science-canary.pdf)

NOTE: ENGINEERING SCORE SHEETS SHOULD BE USED FOR RESEARCH USING THE ENGINEERING DESIGN PROCESS. SCIENCE SCORE SHEETS SHOULD BE USED FOR RESEARCH USING THE SCIENTIFIC METHOD.

JUNIOR DIVISION - ENGINEERING

Hoosier Science and Engineering Fair

JUDGES WORKSHEET

USE THIS FOR ENGINEERING PROJECTS

The scales given for each section are a suggestion, but you may use your own ranking system out of 100 points.

PROJECT # _____

I. Research Problem (10 pts)

	5	4	3	2	1	
						description of a practical need or problem to be solved along with explanation of problem constraints
						definition of criteria

II. Design and Methodology (15 pts)

	5	4	3	2	1	
						exploration of alternative methods
						identification of a problem
						development of a plan

III. Execution: Construction and Testing (20 pts)

	10	8	6	4	2	
						prototype demonstrated
						prototype has been tested
						engineering skill applied

IV. Creativity (20 pts)

	Please rank on a 1-20 scale					project demonstrated
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V. Presentation (35 pts)

a. Poster (10 pts)

	5	4	3	2	1	
						logical organization
						clarity of graphics

b. Interview (25 pts)

	5	4	3	2	1	
						For team projects participation of all team members in the interview.
						clear, concise, thoughtful responses to questions
						understanding of basic science relevant to project
						understanding interpretation and limitations of results and conclusions
						recognition of potential impact in science, society and/or economics
						quality of ideas for further research

	Total Score					NOTES
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Once you have arrived at a total score, please enter reference during the caucus session.

JUNIOR DIVISION - SCIENCE

Hoosier Science and Engineering Fair

JUDGES WORKSHEET

USE THIS SIDE FOR SCIENCE PROJECTS

The scales given for each section are a suggestion, but you may use your own ranking system out of 100 points.

PROJECT # _____

I. Research Question (10 pts)

	5	4	3	2	1	
						clear and focused purpose that is testable using scientific methods
						identifies contribution to field of study

II. Design and Methodology (15 pts)

	5	4	3	2	1	
						well designed plan and data collection methods
						reproducibility of results
						variables and controls defined, appropriate and complete
						familiarity with scientific literature in the studied field, and awareness of other approaches or theories

III. Execution: Data Collection, Analysis and Interpretation (20 pts)

	5	4	3	2	1	
						systematic data collection and analysis
						reproducibility of results
						appropriate application of mathematical and statistical methods
						sufficient data collected to support interpretation and conclusions

IV. Creativity (20 pts)

	Please rank on a 1-20 scale					project demonstrates significant creativity in: subject studied and/or methodology
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V. Presentation (35 pts)

a. Poster (10 pts)

	5	4	3	2	1	
						logical organization of material
						clarity of graphics and legends; supporting documentation displayed

b. Interview (25 pts)

	5	4	3	2	1	
						For team projects include in your scoring the participation or lack of participation of all team members in the interview.
						clear, concise, thoughtful responses to questions
						understanding of basic science relevant to project
						understanding interpretation and limitations of results and conclusions
						recognition of potential impact in science, society and/or economics
						quality of ideas for further research

	Total Score					NOTES
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Once you have arrived at a total score, please complete the score scan card for this project. Bubble in the score and

JUDGING PROCESS

- 1) REVIEW E-PORTFOLIO SUBMISSIONS
- 2) TAKE NOTES USING SCORE SHEETS AS A REFERENCE
- 3) INTERVIEW EXHIBITORS (MARCH 13)
- 4) DELIBERATE
- 5) REPORT RANKINGS

GUIDELINES FOR REVIEWING E-PORTFOLIOS & INTERVIEWS

- JUDGES MUST INTERVIEW IN PAIRS (OR MORE) PER USI CHILD PROTECTION POLICY.
- ALL PROJECTS ARE GUARANTEED AT LEAST ONE INTERVIEW. FEEL FREE TO INTERVIEW PROJECTS MORE THAN ONCE AND INTERVIEW PROJECTS THAT YOU WERE NOT ASSIGNED.
- EACH PROJECT SHOULD HAVE AT LEAST ONE DIGITAL SCORESHEET RECORDED.
- STUDENTS WILL SEE THE COMMENTS YOU LEAVE ON THEIR SCORESHEETS. BE KIND. BE CONSTRUCTIVE. DON'T LEAVE THE COMMENT SECTION BLANK, PLEASE.
- PLEASE REPORT ANY UNSAFE/UNETHICAL RESEARCH PRACTICES. I WILL CONDUCT SAFETY REVIEWS OF ALL SENIOR DIVISION PROJECTS.
 - STUDENTS ARE NOT TO CONDUCT RESEARCH INVOLVING BACTERIA IN GRADES K-8. STUDENT RESEARCHERS IN GRADES 9 - 12 MAY CONDUCT RESEARCH INVOLVING K-12 E. COLI BACTERIA ONLY. HIGH SCHOOL BACTERIAL RESEARCH MUST BE CONDUCTED AT THE SCHOOL (NOT AT HOME).
 - STUDENTS GROWING MOLD FOR THEIR PROJECTS MUST REPORT THAT THEY DESTROYED THE SPECIMEN AT THE FIRST SIGN OF MOLD GROWTH.
- IF YOU NEED COPIES OF YOUR DIGITAL RUBRICS BEFORE JUDGING BEGINS, THE DIRECTOR WILL MAKE THOSE AVAILABLE TO YOUR GROUP
- E-PORTFOLIO JUDGE REVIEWERS WILL BE THE "EXPERT" ON THE PROJECTS THEY REVIEWED. (ADDED 3/1/2021 - 2:17PM)

JUDGING PODS

K-5 (3 projects)	Grade 6 (15 projects)	Grade 7 (55 projects)	Grade 8 (48 projects)	Grades 9 - 12 (30 projects)
Alice Sutton	Gina Wagoner Jamie Curry	Bryan Lynch Julie Mann Katelyn Russell Keith Carter Madelyn Sturgeon Misty Ostergaard Mitch Lumen Nicole Becklinger Tony Maria Uditha Wijesuriya	Carrie Wright Erin Reynolds Gracie Steele Jeffrey Polak Mark Creager Matt Merlo Natalie Schimp Patty Allen Paul Kuban Tina Closser	Amy Pierce Bill Elliott Brandon Field Kelly Sparks Priya Hewavitharange Rick Hudson Ryan Loehrlein
<u>K-5 Project Listing</u>	<u>Grade 6 Project Listing</u>	<u>Grade 7 Project Listing</u>	<u>Grade 8 Project Listing</u>	<u>Grades 9 - 12 Project Listing</u>

SAMPLE QUESTIONS

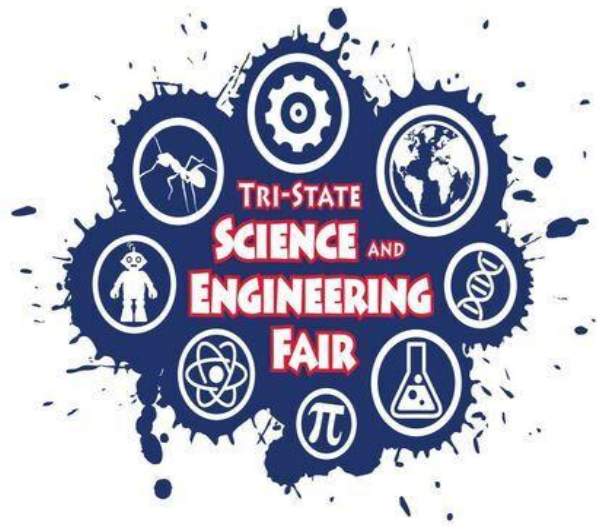
[HTTPS://WWW.USI.EDU/MEDIA/1669669/JUDGESSAMPLEQUESTIONS.PDF](https://www.usi.edu/media/1669669/judgessamplequestions.pdf)

REPORTING OF WINNERS -

K-5 (3 projects)	Grade 6 (15 projects)	Grade 7 (55 projects)	Grade 8 (48 projects)	Grades 9 - 12 (30 projects)
Grade 5 Grand Award Winner	Grand Award - 1st Place	Grand Award - 1st Place	Grand Award - 1st Place	Grand Award - 1st Place
Grades K-3 Grand Award Winner	Grand Award - 2nd Place	Grand Award - 2nd Place	Grand Award - 2nd Place	Grand Award - 2nd Place
Grades K - 3 Honorable Mention Award Winner	Grand Award - 3rd Place	Grand Award - 3rd Place	Grand Award - 3rd Place	Grand Award - 3rd Place
	Honorable Mention Award (2)	Honorable Mention Award (2)	Honorable Mention Award (2)	Honorable Mention Award (7)
	Alternates (3) - Ranked 1 - 3	Alternates (3) - Ranked 1 - 3	Alternates (3) - Ranked 1 - 3	Alternates (3) - Ranked 1 - 3

AWARDS REPORTING FORM LINK

https://usisurvey.az1.qualtrics.com/jfe/form/SV_6Du1EsxmC0DCvs2



THANK YOU!

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