

Beal Bank
DRSEF

Dallas Regional Science
and Engineering Fair



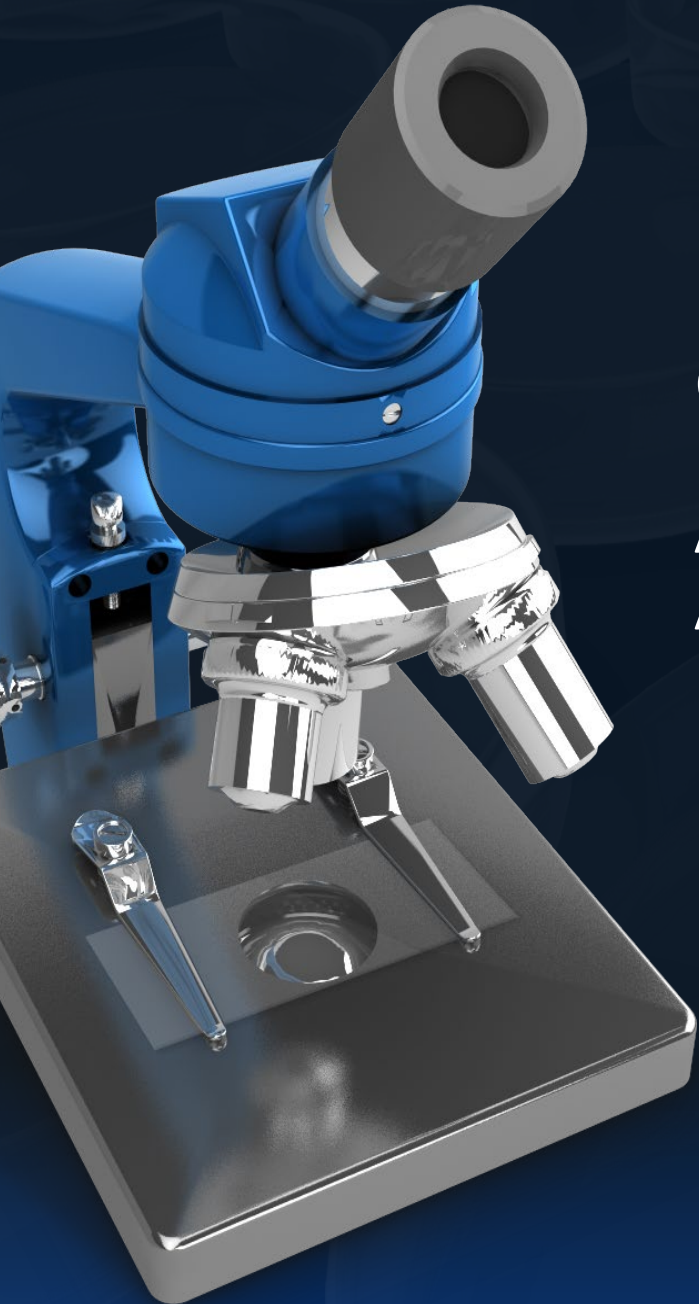
Judging Orientation for 2023

Agenda



- 1) Organization
- 2) Scoring
- 3) Conduct

Organization:



DRSEF affiliated with the
International Science & Engineering Fair (ISEF)
Over 4 million projects worldwide

Our region = Dallas + 7 adjacent counties

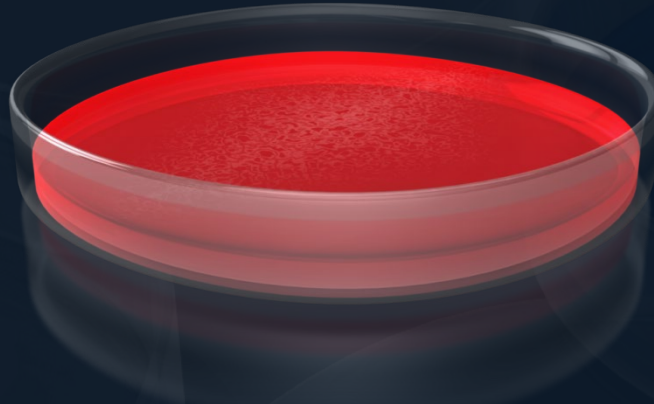
Approximately 1,000 students at DRSEF
All winners at their individual school fairs

Today's winners can advance to:

- Texas Science & Engineering Fair
- Regeneron ISEF
- Thermo Fisher Scientific Junior Innovators Challenge

Two Kinds of Judges

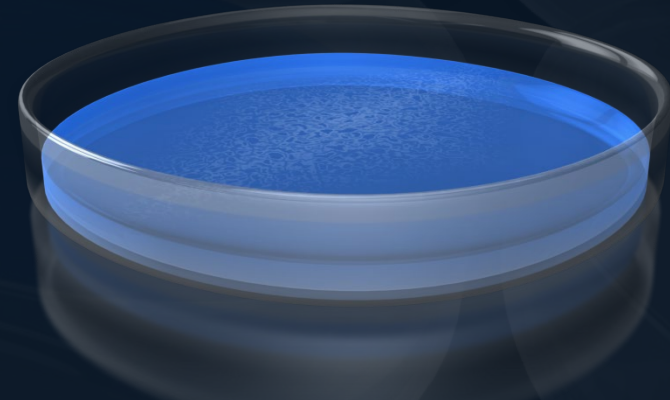
Red Ribbon



*Science & Engineering
Category Judges*

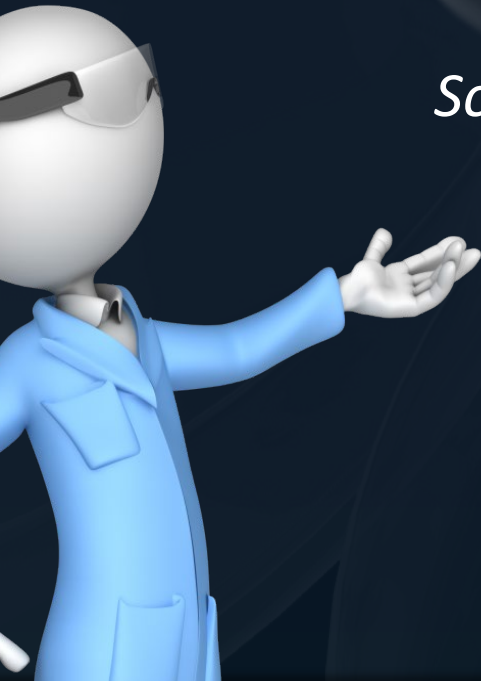
Determine ISEF
category winners

Blue Ribbon



Special Award Judges

Determine donor
organization's prize
winners



Divisions and Categories



Projects divided into:

Junior Division (6-8 grade)

Senior Division (9-12 grade)

Divisions divided into categories:

Animal Science (ANIM)

Plant Science (PLNT)

Earth & Environmental Sciences

etc.

Some small categories are combined

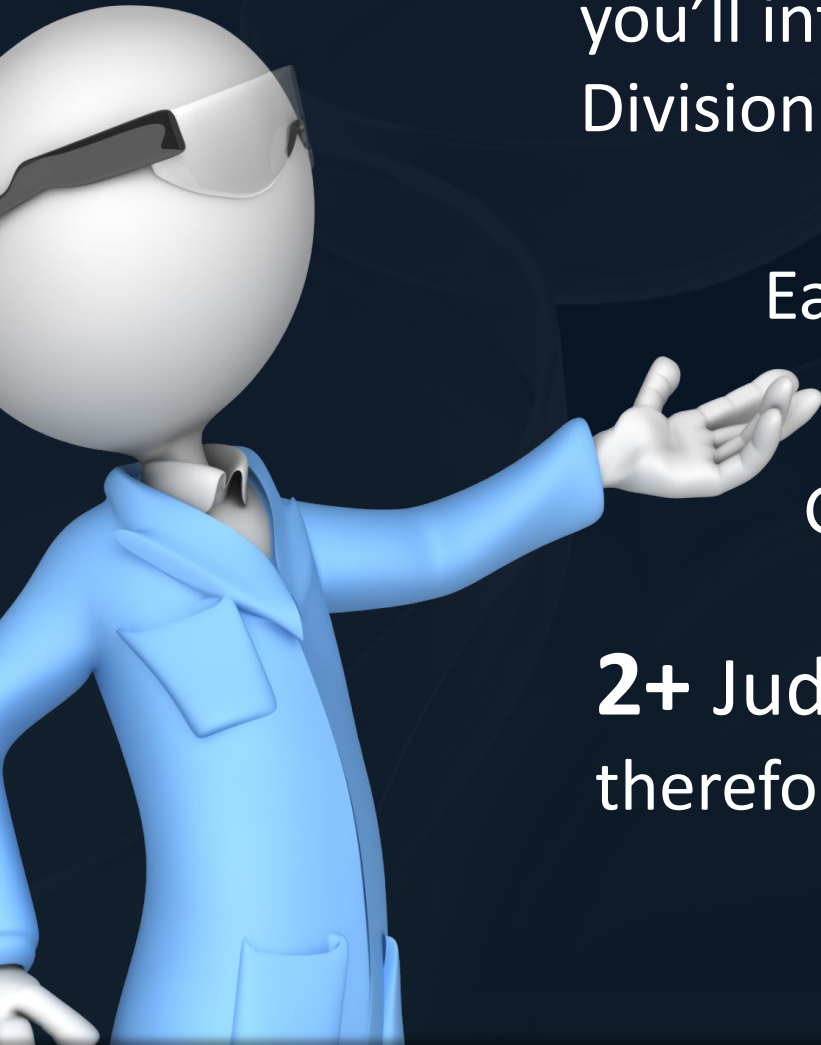
JUDGING TEAMS

Each Team is numbered (1- 80)
you'll interview students in a particular
Division / Category

Each Team has a **Captain**

Goal - 3 judges per Team

2+ Judging Groups for Large categories
therefore ... 2nd round of judging



Round 1 - Interviews

If your category has only 1 Judging Team
Captain submits **ORANGE** form

Winners and Honorable Mentions
Your Team is done!

If your category has several Judging Teams

Captains submit a **BLUE** worksheet to check-in

- note top 3 projects in group
- suggest Honorable Mentions

Students are dismissed at Noon.

All Captains submit Round 1 results by 12:30 pm



Round 2: Judging for Multiple Team Categories

Captains collect **Blue** worksheets from Check-in
Round 2 starts when ready, team members may join

Compare & Discuss top projects across groups,
no interviews; look at projects together



One **Captain** submits **ORANGE** form
Winners and Honorable Mentions

Complete by 1:30 pm

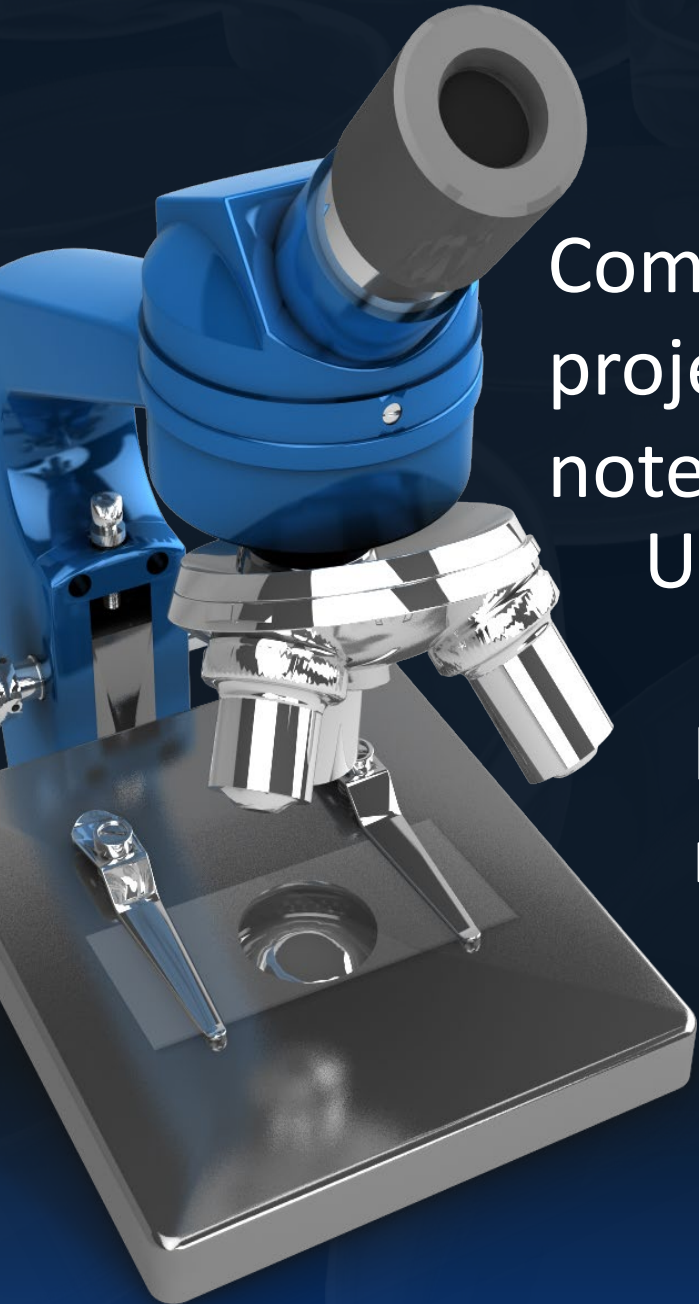
Your Category Teams are done!

Rounds Timetable

9am	10am	11am	12pm	1pm	2pm
Round 1 – Interviews			Lunch Buffet		
			Round 2		



Scoring:



Complete Score sheet for *each* project interviewed, please take notes!

Use scores as basis for discussion

Review differences in scoring methods & weighing of items

TITLE: **SCIENCE PROJECT**

		Low	Mid	High	Max	SCORES	Notes
Research Question	Purpose	Unclear	Lacks focus	Clear	10		
	Contribution to Field	Not identified	Vague	Identified			
	Scientific Method	Not testable with	Partly Testable with	Testable with			
Method	Data Collection	Poorly designed	Some planning	Well-designed	15		
	Variables and Controls	Not defined	Incomplete or Inappropriate	Defined and Appropriate			
Execution	Reproducibility	None Possible	Difficult	Good	20		
	Data Collection & Analysis	Arbitrary	Incomplete	Systematic			
	Math Methods	Erroneous	Some Inappropriate	Appropriate & correct			
	Data Collected	None	Insufficient	Sufficient			
Creativity	In Above Criteria	Cookbook No New Ideas	Teacher Assigned Some Value Added	Student Initiated Innovative	20		
Presentation	Poster	Illogical or Unreadable	Lacks supporting docs or some lack of clarity	Logical, readable, & supporting docs	10		
	Interview	Poor Responses Basic Misunderstanding No Conclusion No Recognition of Impact No Future Ideas (TEAM) One Student Dominant	Some Vague Responses Basic Misunderstanding Misunderstanding Results Unawareness of Impact (TEAM) Uneven Contributions	Clear Responses Basic Understanding Understands Results Recognizes Impact Future Ideas (TEAM) All Members Involved	25		

TITLE: **ENGINEERING PROJECT**

		Low	Mid	High	Max	SCORES	Notes
Research Problem	Practical Need	Not Described	Partly Described	Fully Described	10		
	Criteria for Solution	Not Defined	Partly Defined	Fully Defined			
	Constraints	Not Explained	Partly Explained	Fully Explained			
Method	Alternatives	Not Explored	Partly Explored	Fully Explored	15		
	Solution	Not Identified	Vaguely Identified	Clearly Identified			
	Prototype/Model	Not Developed	Partly Developed	Fully Developed			
Execution of Prototype	Intended Design	Not Demonstrated	Partly Demonstrated	Fully Demonstrated	20		
	Testing Conditions/Trials	Very Narrow	Limited	Multiple			
	Skill and Completeness	Little Demonstrated	Somewhat Demonstrated	Well Demonstrated			
Creativity	In Above Criteria	Cookbook No New Ideas	Teacher Assigned Some Value Added	Student Initiated Innovative	20		
Presentation	Poster	Illogical or Unreadable	Lacks supporting docs or some lack of clarity	Logical, readable, & supporting docs	10		
	Interview	Poor Responses Basic Misunderstanding No Conclusion No Recognition of Impact No Future Ideas	Some Vague Responses Basic Misunderstanding Misunderstanding Results Unawareness of Impact	Clear Responses Basic Understanding Understands Results Recognizes Impact Future Ideas	25		
		(TEAM) One Student Dominant	(TEAM) Uneven Contributions	(TEAM) All Members Involved			

Scoring

Each Judge interviews *every* project in group

Only one Judge at a project at a time

Ask many and detailed questions

Budget 8-10 min for each project

Complete evaluations *away*
from the student



Team Movement

Divide your Team's projects into sub-blocks

After interview - fill out form, move to next person in block, rotate to the next block



Check mid morning to make sure all projects will be covered.

Judge Group Checklist

Judge Group Junior Animal Sciences

1 ANIM

Notes

101 the nose knows

102 Dolphin Language

103 The Maze Runner Hamptser EDITION

104 Feeding the Mice

105 the silent killer

106 Is it Really Bone Apelait?

107 Laser Eyed Bulldog

108 How Do You Attract?

109 Daphnia: Growth and Reproduction

110 The Paw Preference Project

Project Count = 10

Scoring Check List - Abstract

If Stated as 2+ Person Team:

Check under the Project Number for team members

Include all members in the interview

Reduce presentation score if any student absent

If #2 is checked YES on Abstract ...

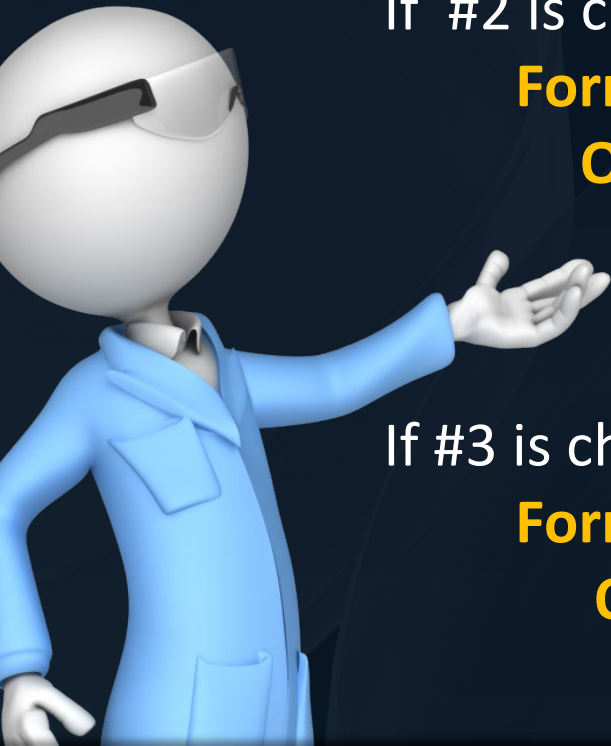
Form 1C must be displayed (work done at institution)

Only judge student's own work

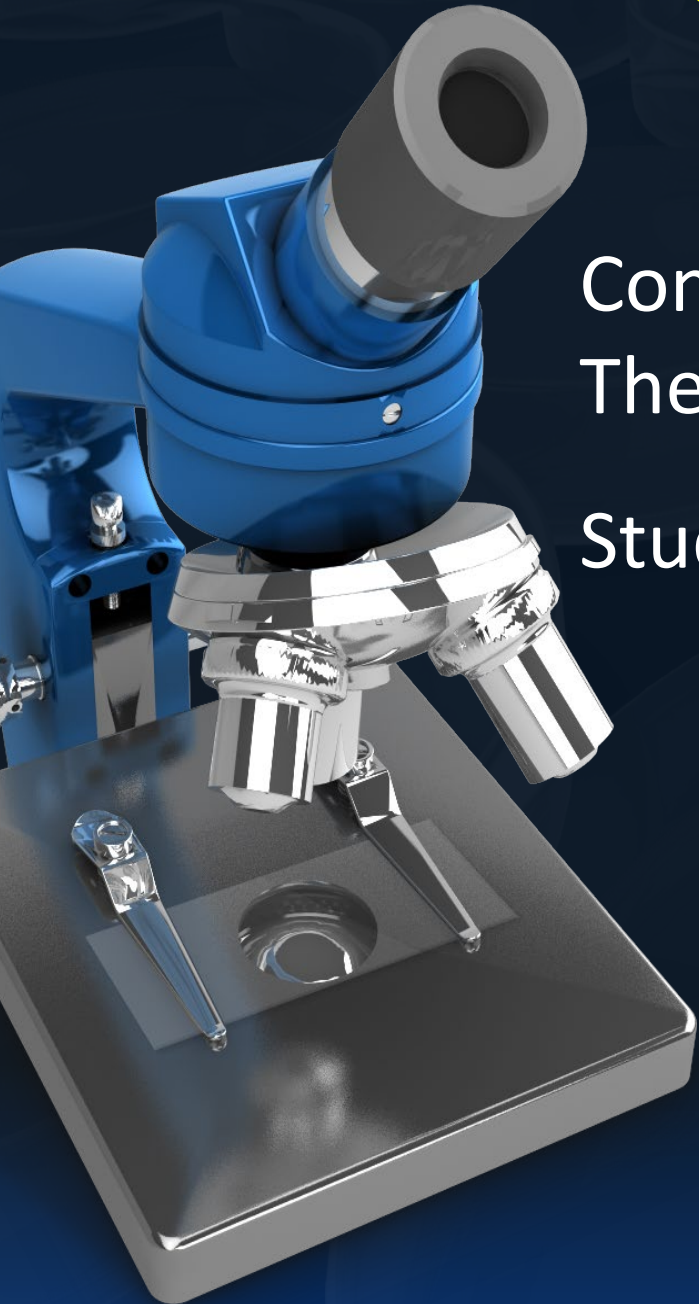
If #3 is checked YES on Abstract...

Form 7 must be displayed (continuation of research)

Only judge this year's work



Judging Do's:



Consider age, maturity, knowledge.
These are Students, not professionals!

Students take competition seriously

Be encouraging

Be respectful

Interviews are highlight of Fair

Have fun and learn new things

Judging Don'ts:

Don't judge someone you know

Don't ask about parents or school

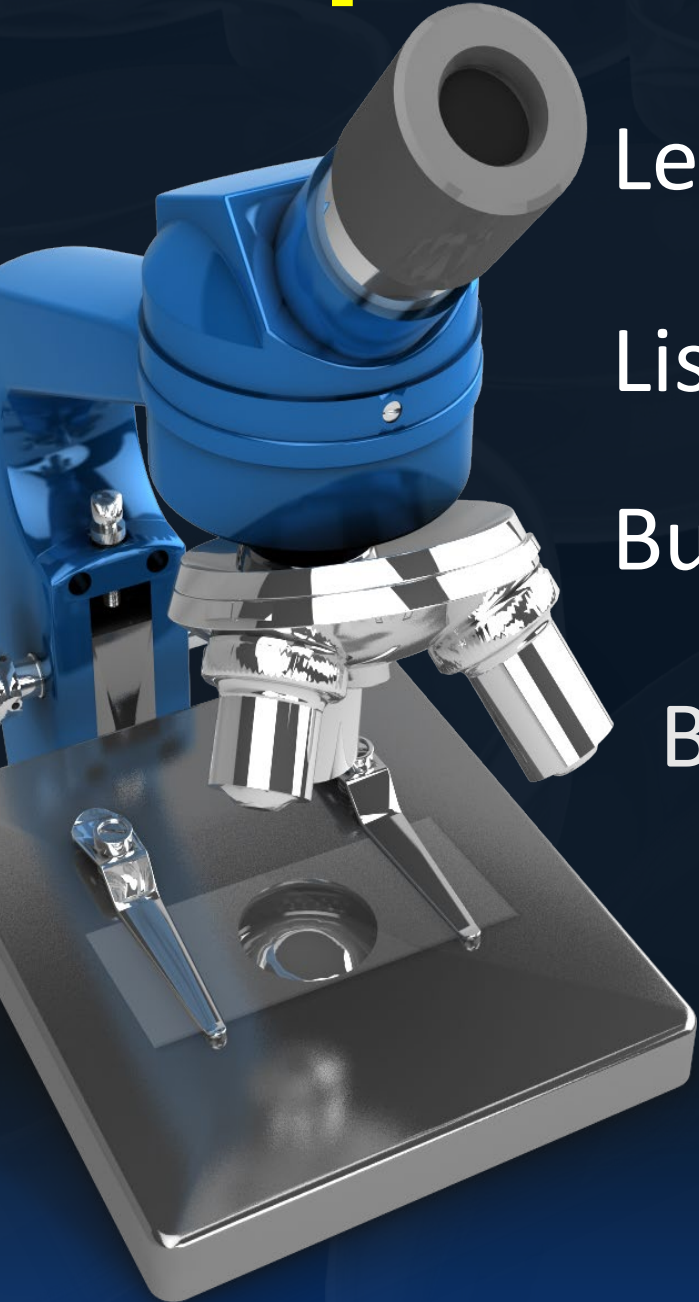
Don't ignore weak projects

Don't criticize ... offer suggestions



Don't discuss your judging process with students, parents, or teachers

Captains' Responsibilities



Leadership in discussion

Listen to all Team Members

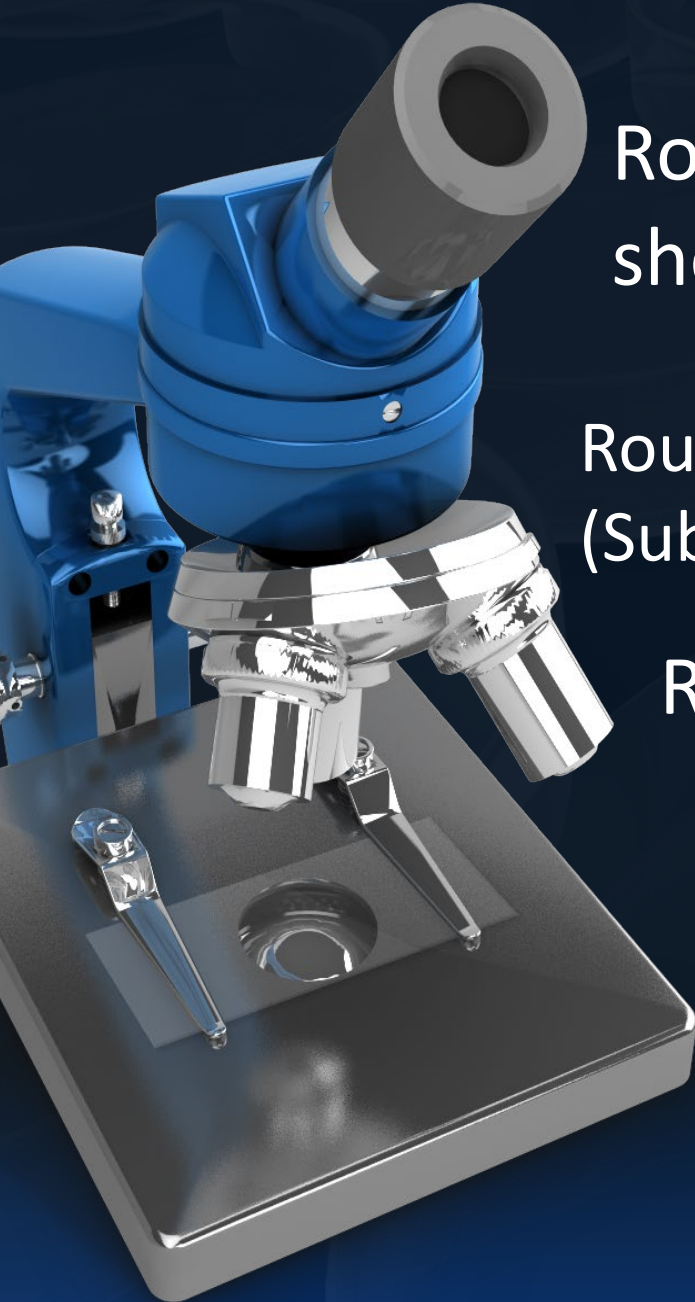
Build consensus

Be Accurate in score keeping

Be Scientific and Fact based

MAINTAIN THE TIMETABLE

Captains' Responsibilities



Round 1 **Blue** Form *and* scoring sheets returned by 12:30 pm

Round 2: Meet with your category Captains (Substitute group member if necessary)

Return Round 2 **Orange** Form by 1:30 pm