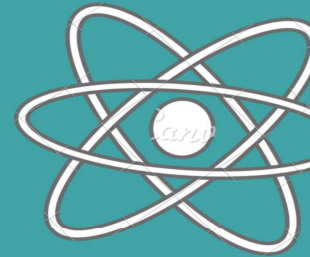


**S  
C  
I  
E  
N  
C  
E  
  
O  
L  
Y  
M  
P  
Y  
A  
D**

Join the  
**REDMOND  
MIDDLE  
SCIENCE TEAM!**

And learn/compete in a topic of your choice!

**2020 - 21**



**N  
S  
B  
  
Y  
B  
T  
C**

# AGENDA FOR INFO NIGHT

- Science Team and its Goals
- Updates for this year
- Club Committee and ways to volunteer
- Teacher and School support
- Science Competitions for 2020-21
  - Science Olympiad (SO)
  - National Science Bowl (NSB)
  - You Be The Chemist (YBTC)

# SCIENCE CLUB GOALS 2020-21

1. Enhance Learning of science through awareness and participation and empower Students to achieve their best.
2. Promote peer growth and Team spirit across RMS to send the best possible teams to represent RMS at Regional and State level competitions... and hopefully Nationals 😊
3. Facilitate increased usage of school facility, teacher support & external resources
4. Be Flexible, Be Adaptive, Build on Last year to keep the Momentum !!!

# SCIENCE TEAM

Science Team is a PTSA club run by Volunteer parents

	Role	Name	Email Address
<b>Core</b>	Chair	Pritul Shah	<a href="mailto:pritulshah@gmail.com">pritulshah@gmail.com</a>
	Co-chair	Subeka Chhabra	<a href="mailto:subeka11@gmail.com">subeka11@gmail.com</a>
<b>SO Managers</b>	8th Grade	Sumit Kaur	<a href="mailto:sumitkaur@gmail.com">sumitkaur@gmail.com</a>
	7th Grade	Shalu Mehta	<a href="mailto:shalubatra@hotmail.com">shalubatra@hotmail.com</a>
	7th Grade	Vikas Singh	<a href="mailto:vikarsingh@hotmail.com">vikarsingh@hotmail.com</a>
	6th Grade	Amala Joshi	<a href="mailto:amala.joshi@gmail.com">amala.joshi@gmail.com</a>
<b>NSB Lead</b>	8th Grade	Arvind SV	<a href="mailto:svarvind@gmail.com">svarvind@gmail.com</a>
	7th Grade	Chhavi Chopra	<a href="mailto:chhavi.chopra@gmail.com">chhavi.chopra@gmail.com</a>
	6th Grade	Smita Thota	<a href="mailto:susmi12345@gmail.com">susmi12345@gmail.com</a>
<b>YBTC Lead</b>		?	
<b>Budget Coordinator</b>		Swetha Yaga	<a href="mailto:swetha.yaga@gmail.com">swetha.yaga@gmail.com</a>

**Science Team Teacher Support : Ms. Brenna Nelson**

*For Details on Role Descriptions see back up slides*

# TEACHER SUPPORT : MS. BRENNAN NELSON

## **Teacher support**

- advises students when requested for particular event coaching across teams
- provides classroom /pod space for weekly learning sessions.
- Helps accessing school equipment and resources when needed.

We are very thankful to Ms. Nelson for her kindness and support  
We will be mindful about using her time for subject coaching.

Any questions related to the club and its processes should be directed to the committee as this is a PTSA club. Team coach / Parent volunteers must always be present as chaperones and students should not be left unattended on school premises , "As Applicable".



# EXPECTATIONS FROM PARENTS

1. Science Team will **do their best** --- they are all volunteers ... easy to criticize without knowing in detail
2. There is no solution that fits all
  - a. Provide suggestions,
  - b. Respect current volunteers --- embrace “Disagree and Commit”
3. When a kid participates in Science Club – parents are expected to do some volunteering when being asked
4. Decision of Science Committee will be final. You trust them to do well...
  - a. Again provide perspectives but “Disagree and Commit” and move on.

# NEW THIS YEAR

- Good News - Probation is lifted from RMS for # teams that can participate in SO
- But a reminder...All communications with external invitational and regional event managers should go only through Science Olympiad head coach – **Subeka Chhabra**

## COVID -19 has

- Created uncertainty / Ambiguity for many / all events
- Made it difficult for the current volunteers and everyone to provide the same efforts while working full time / other priorities
- Budget constraints and Trade off

# BUDGET

- How Budget Works and tied to Fees
  - Controlled and Monitored by PTSA
  - Income = Expense and No Carry Forward
  - Volunteering Hours Counts + Employee Matching
- Income
  - Volunteering Match + Membership Fees
- Expense
  - Registration Fees
  - Science Material
  - Internal Event expense
  - ... and more



**RMS SCIENCE  
COMPETITIONS  
2020-21**

# NATIONAL SCIENCE BOWL

- National Science Bowl® is a nationwide academic competition that tests students' knowledge in areas of science and mathematics.
- Teams of 4 students (from same school) participate in a rapid-fire buzzer rounds.
- It is a verbal competition testing students in all branches of science including Biology, Chemistry, Earth Science, Physics, Energy, and Math
- Max Teams: 24

## Key Dates:

- NSB Mockup (run by Buzz Bowl) : Dec 2020
- Regionals: Jan 14 -23, 2021
- Nationals: May 8, 2021 in Washington DC

## Resources

- **NSB Info:** <http://science.energy.gov/wdts/nsb>
- **NSB Rules :** [https://science.osti.gov/-/media/wdts/nsb/pdf/coordinator-resources/2021\\_nsb\\_rules.pdf?la=en&hash=29F137034DA130A75BAD2E96319E0BA286B3CA18](https://science.osti.gov/-/media/wdts/nsb/pdf/coordinator-resources/2021_nsb_rules.pdf?la=en&hash=29F137034DA130A75BAD2E96319E0BA286B3CA18)
- **Sample Questions :** <https://science.osti.gov/wdts/nsb/Regional-Competitions/Resources/MS-Sample-Questions>
- **Coaching Advice :** <https://anl.app.box.com/s/pzajdigms2dkguqcbfgd3ymbbg2v29xa>

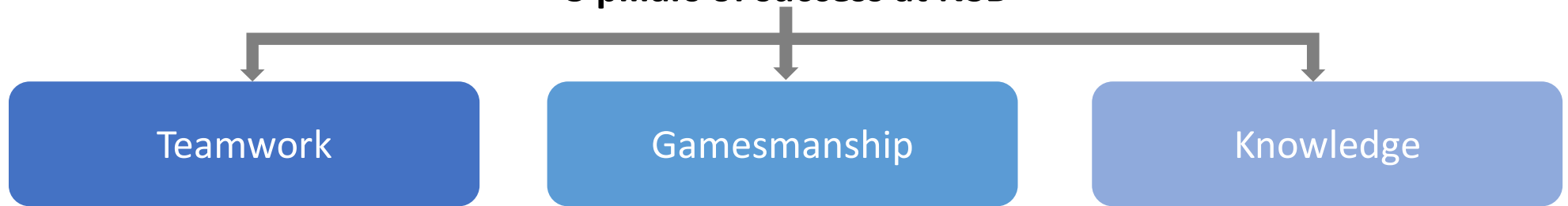
**Committee support : Arvind, Chhavi & Smita**

# NSB TEAM 2019-20

\*Photo Removed for online Posting

# National Science Bowl – Team Selection & Responsibilities

## 3 pillars of success at NSB



### Team creation:

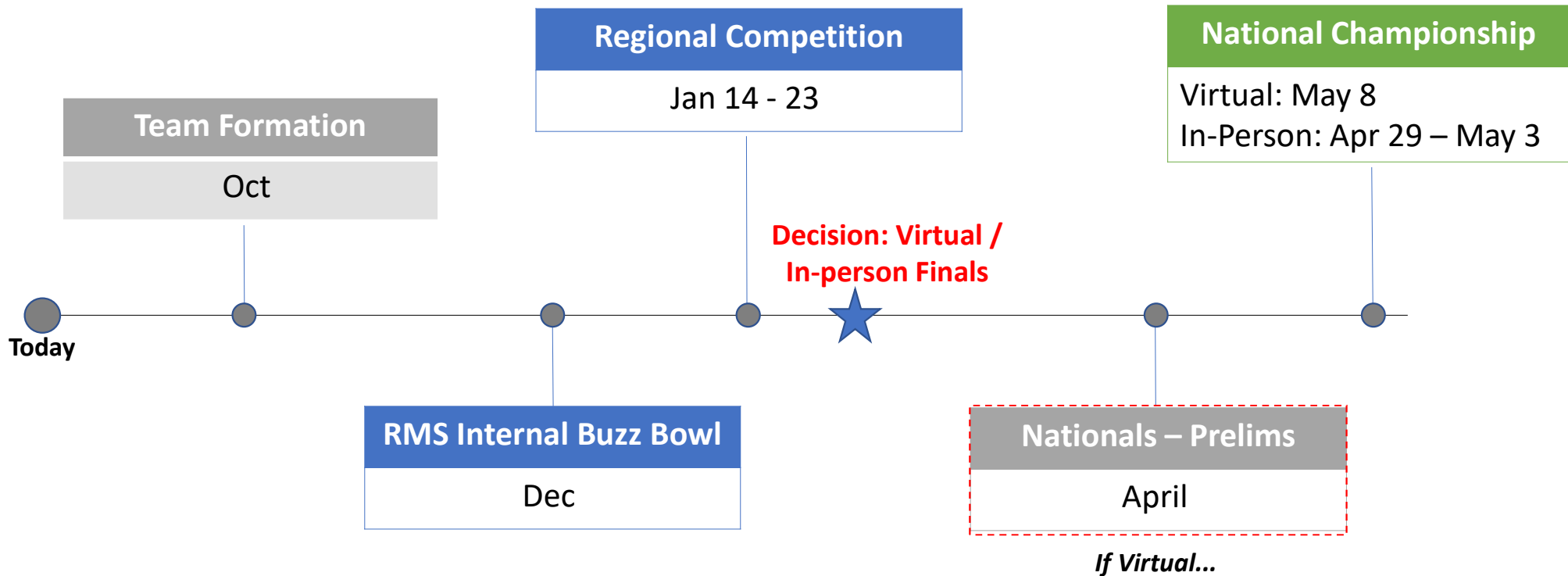
Parent coaches form teams of 4-5 students. RMS committee can help connect interested students to form a team if needed

### Responsibilities of Parent coaches:

- Leverage student's expertise in a specific Science area
- Assign topics and help team ramp-up. 5th student back-up
- Help students with strategies to respond fast in a buzzer format
- Encourage team spirit and flexibility to take on extra topics where team needs help.
- Support knowledge sharing, explaining them the solution, etc.

RMS Science Club will hold Internal Buzz Bowl to choose top 1 team to represent school at NSB Regionals

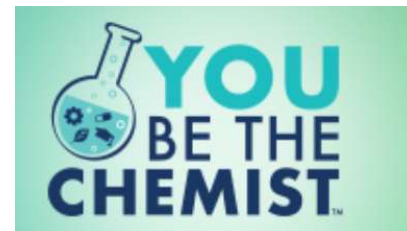
# Road to NSB National Championship



**New Challenge:** Logistics to setup Internal Buzz Bowl due to pandemic restrictions

\*Photo Removed for online Posting

# YBTC



You Be The Chemist (YTBC) Challenge is a fun and multilevel academic competition that encourages students in grades 5-8 to explore chemistry concepts and their real-world applications.



**No selection – everyone can participate.** Students are eligible to compete in groups of four.



School and Regional Level: [Study Materials available online](#)



Useful Resources: <https://www.chemed.org/programs/challenge/competition-rules/>  
<https://www.chemed.org/programs/activity-guides/>

# Video Clip from Last Year Student

\*Photo Removed for online Posting



## Part One: Academic Competition

- A combination of short-answer and multiple-choice questions
- Students answer questions individually
- Winning teams will have the highest average participant scores

## Part Two: Video Competition



PARTICIPANTS CREATE  
A VIDEO



COLLABORATE IN-  
PERSON OR VIRTUALLY



QUALIFYING TEAMS'  
VIDEOS ARE SCORED

## Part Three: National Challenge

- **Video Screening and Q&A:**
  - Top teams can discuss:
    - Research
    - Conceptualization
    - Explored Topic
  - Panel asks questions
- **Industry-Inspired Panel:**
  - Industry ask students about their research and how it relates to sustainability
- **In-Person Event:**
  - Included as part of the potential CEF STEM Summit, pending safe conditions

# YBTC: Timeline

## September 28 – December 31, 2020

- Registration open

## November 2020 – April 2021

- Teams collaborate to create a video based on a prompt exploring chemistry concepts that will be evaluated by a panel of judges. *All* teams will create and submit a video. The prompt and rubric will be released in November 2020.

## February – March 2021

- Students compete in one of four virtual events; they answer multiple-choice and short-answer questions. During the virtual event students answer questions individually, and a student's scores are averaged with those of their teammates to calculate a team's overall score.

## May – June 2021

- CEF will announce whether the National Challenge will be held virtually or in-person by March 31, 2021. Stay tuned for more information.

# SCIENCE OLYMPIAD



<https://www.soinc.org/>

- > Science Olympiad is an international non-profit organization devoted to improving the quality of science education
- > The goals of the Science Olympiad is to elevate science education and learning to a level of enthusiasm and support that is normally reserved only for varsity sports programs.
- > Science Olympiad tournaments are rigorous academic interscholastic competitions that consist of a series of team events, which students prepare for during the year.
- > Multiple events spanning several areas of science



# Video Clip from Last Year Student

\*Photo Removed for online Posting

# RMS & SCIENCE OLYMPIAD

RMS will participate this year with multiple teams (2+) across all grades

## Science Club coordinators

- Amala Joshi
- Shalu Mehta
- Sumit Kaur
- Vikas Singh



## Background of RMS Science Olympiad

> 2016-17 [39 members]: 3-4 teams started the year - 2 teams went to Regionals

> 2017-18 [60 members]: 4 teams started the year - 4 teams went to Regionals - 2 teams went to State ; Placed 2<sup>nd</sup> and 3<sup>rd</sup> place

> 2018-19 [120 members], [increased diversity]: 8 teams started the year -6 teams went to Regionals -2 teams went to State; Placed 2<sup>nd</sup> and 6<sup>th</sup> place

> 2019-2020 [60 members]: 4 Teams started the year; 2 teams qualified for regionals

# EVENT FORMATS FOR 2021

**Formats** (New this year based on COVID situation)

➤ **Traditional format (Unavailable this year- Total of 23 events)**

- Build events , Lab Events and Study Event

➤ **Satellite SO (21 Events)**

- Applicable for students attending school in a physical building but large public gatherings in single location is prohibited
- Implied for Regionals and State level; Invitationals format currently TBD for WA state
- Teams Record and report results of tests & build events from their school building under supervision of registered tournament directors

➤ **Mini SO ( 19 Events; 2 Events dependent on Event Supervisors decision)**

- For students in distance learning mode where COVID-19 precautions are still in place
- Tests prepared by Event Supervisors and delivered through a variety of tech platforms

➤ **My SO (New in 2021)**

- Theme based 9-month, connected to popular SO subjects
- Students can participate in knowledge tests against their peers, complete with prizes and a national monthly leaderboard. Knowledge tests are paid by individual students

# Team Formation Criteria (guided by inputs from WSO)

- **Opportunity for RMS to win at Regionals and State** (utilize previous experienced students)
  - Need at least one strong team – well practiced with at least 3 invitationals
- **Fair Opportunity for majority RMS students** (how many teams/ students can we accommodate)
  - Maximum number of teams involving all students
  - Each Sci Oly student attends multiple invitationals
  - Every hardworking and high performing student gets an opportunity to represent RMS at External Competitions
- **Requirements for Merger to create stronger SO Teams**
  - Event blocks ( can use even if teams go to different invitationals)  
**new approach we tried last year, planning to carry forward.**

# EVENTS AND RMS BLOCK STRUCTURE

	A	B	C	D	E	F	G	H	I
1	<b>BLOCKS</b>	<b>Block 1</b>	<b>Block 2</b>	<b>Block 3</b>	<b>Block 4</b>	<b>Block 5</b>	<b>Block6</b>	<b>Block7</b>	<b>Block 8</b>
8									
9	<b>Satellite SO Count</b>	3	3	2	3	2	3	3	3
10	<b>Satellite SO</b>	Mission Possible, Reach for Stars & Food Science (Test Only)	WI-CAD IT, Dynamic Planet & Meteorology	Anatomy & Physiology, Water Quality (Test Only)	Mousetrap vehicle* , Disease Detective, Fossils	Heredity, Ornithology	Density Lab (Test Only), Exp. Design* & Road Scholar	Machines (TestOnly) , Circuit Lab (TestOnly), Crime Buster (Dry Lab Only)	Exp. Design*, Game On & Digital Structures
11									
12	<b>Mini SO Count</b>	3	3	2	2	2	2	3	2
13	<b>Mini SO</b>	Mission Possible, Reach for Stars & Food Science (Test Only)	WI-CAD IT, Dynamic Planet & Meteorology	Anatomy & Physiology, Water Quality (Test Only)	Disease Detective, Fossils	Heredity, Ornithology	Density Lab (Test Only) & Road Scholar	Machines (TestOnly) , Circuit Lab (TestOnly), Crime Buster (Dry Lab Only)	Game On & Digital Structures
14									
15									
16									

## Science Olympiad resources

Rules and Guidelines - <https://www.soinc.org/>

Student Center (Wiki) - <https://scioly.org/>

My SO- <https://www.soinc.org/myso>



# TEAMS - LOGISTICS

## Basic Team Structure

- > 19 total events in Mini SO
- > 21 total events in Satellite SO
- > 15 students per team
- > Each member needs to take at least 2 events
- > Will have 2+(max 6) teams based on interest
- > Event selections will be based on interest. SO Managers will help coordinate.
- > Each team will have 2 team coaches (**Need volunteers to make it work!**)
- > A set of 2-3 partners on the team for at least 2 events
- > Partner choices are not guaranteed
- > Partners study together for a given event and take the participate together

# MY SO

LESSON PLAN  
[ First day of the month ]  
STEM SESSION  
[ 15th day of the month ]  
STEM SHOWDOWN  
[ Last Thursday of the month ]

**SEPTEMBER 2020**

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

 **EPIDEMIOLOGY**

**OCTOBER 2020**

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

 **SPACE**

**NOVEMBER 2020**

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19*	20	21
22	23	24	25	26	27	28
29	30					

 **CIRCUITS**

**DECEMBER 2020**

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17*	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

 **WEATHER**

**JANUARY 2021**

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

 **ANATOMY & PHYSIOLOGY**

**FEBRUARY 2021**

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28						

 **STRUCTURES**

**MARCH 2021**

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

 **FORENSICS**

**APRIL 2021**

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

 **PLANTS**

**MAY 2021**

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

 **ENGINEERING**

2020-2021  
ACADEMIC YEAR

- 9-month calendar-based event
- Do not need to be a Science Olympiad team member to participate
- Single player
- Fee - \$10 (paid by the student)
- Soinc.org/myso
- Top 25 Winners in each division will receive a Science Olympiad MY SO Medal, laptop sticker and certificate.

# RMS S3 - SCIENCE STUDY SESSIONS

- Virtual learning sessions (once/twice a week)
  - Tuesday (3-4pm) and Saturday (9.30-10.30am)
  - SO – every week
  - NSB/YBTC - alternate week
  - My SO – once a month
- Mentors - High school students
- Platform – Microsoft Teams(student school email)
  - RMS PTSA Science Team channel – **RMS S3**(Science Study Sessions)
  - SharePoint access for all the resources  
<https://rmsptsa.sharepoint.com/sites/PTSAScienceTeam>

# VOLUNTEERS

- All hands
- Coach your child's team for SO/NSB/YBTC
- Teach/help organize science study sessions
- Chaperone team events / study sessions
- Other (your choice)

\*Volunteer sign up here: <http://rmsptsa.org/Page/PTSA/Volunteer>

# Tentative Timeline for various Science Competitions

Website updates – ongoing – please check weekly in Sep and Oct

## Science Olympiad

- ~ Internal Self Ass.: Early October
- ~ Team Formation : Mid October
- ~ Invitational SO : Starting November
- ~ Regional : ~ February – March
- ~ State : Around April
- ~ National : Around May

## National Science Bowl

- ~ Registration: Early October
- ~ Team formation: October
- ~ Internal NSB: Early December
- ~ Regional : Jan 14- 23 \*
- ~ National : Apr 29 - May 3, 2021 \*

\* The regional schedule will be provided in December.

## YBTC

Please Refer to Slide 18

Q & A



Ask your question in Q&A on the right side of your window!

**REGISTRATION IS NOW OPEN (Sep 24 – Oct 4, 2020)**

### **How to register??**

- Go to RMS PTSA website --->Programs --->Science Team --->Click here for more info OR you can directly enter <http://rmsptsa.org/Page/Programs/ScienceTeam>
- To register – Click on <http://rmsptsa.org/Packet/ScienceTeamReg>

Questions?? Contact us at : [scienceteam@rmsptsa.org](mailto:scienceteam@rmsptsa.org)



Back UP

JOIN  
THE RMS SCIENCE TEAM

Welcome to 2020-21

Be part of the Grizzly  
Scientific Community

Be a spirited  
chemist!  
Participate  
in **YBTC**

Test your speed in  
science!

Enroll in **SCIENCE  
BOWL**

Build a rollercoaster!  
Identify Fossils!  
Be a crime buster!  
Study Genetics!  
Sign up for **SCIENCE  
OLYMPIAD**